Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
FUI-2025B					
	F-FUI-02200	passed	The FOS shall allow the user to send		0
			files from a user station or server.		
	F-FUI-02202	passed	The FOS shall allow users to delete		0
			files from their local storage area.		
	F-FUI-02210	passed	The FOS shall allow the user to select		0
			files from available categories.		
	F-FUI-02215	passed	The FOS shall provide a find capability	The find capability allows the user to	0
			for selecting files.	type in text, and highlights the closest	
				alphabetic candidate.	

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	Clarification	NCR ID
	F-FUI-02225	passed	The FOS shall provide a view of		0
			selected files to be sent.		
	F-FUI-02235	passed	The FOS shall allow the user to		0
			deselect files that were selected.		
	F-FUI-02240	passed	The FOS shall provide a notification to		0
			the user that:		
			a. a file transfer is in progress		
			b. a file transfer has been completed		
			c. a file transfer error has occurred		
FUI-2030B					
	F-FUI-02600	passed	The FOS shall provide the user a		0
	. 1 61 62666	passed	palette of available widgets from which		Ç
			the user may dynamically build a		
			C-252		324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			real-time display.		
	F-FUI-02605	passed	The FOS shall allow the user to drag		0
			widgets via the pointing device from		
			the palette and drop them into the		
			display.		
	F-FUI-02610	passed	The FOS shall provide a palette that	Items n and o are combined on the	0
			shall include:	palette into a single separator object	
			a. label	The format for this object allows the	
			b. field	user to select the orientation	
			c. (deleted)	(vertical/horizontal).	
			d. (deleted)		
			e. (deleted)		
			f. graph		
			g. table		
			h. deleted)		
			i. (deleted)		
			j. (deleted)		
			C-253		324-CD-005-

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			k. data source		
			I. (deleted)		
			m. (deleted)		
			n. horizontal separator		
			o. vertical separator		
			p. schematic graphic items (point, line,		
			icon, circle, rectangle, ellipse, and		
			polygon)		
	F-FUI-02625	passed	The FOS shall allow the user to		0
			associate a telemetry value place		
			holder and a descriptor/mnemonic		
			place holder with a telemetry value.		
	F-FUI-02630	passed	The FOS shall allow the user to save a		0
			real-time display definition as:		
			a. a local copy, and/or		
			b. a submission to the FOS CCB as		
			C-254		324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	Clarification	NCR ID
			permanent, global copy.		
	F-FUI-02635	passed	The FOS shall allow the user to modify an existing real-time display definition.		0
	F-FUI-02640	passed	The FOS shall allow the user to delete a real-time display definition.	Temporary alphanumeric, table, and graph displays can be automatically defined and used immediately throug the quick analysis capability. See section 9.1.9.4 for the detailed quick	0 h
	F-FUI-07100	passed	The FOS shall allow the user to select an update rate from 1 to 60 seconds.	analysis requirements.	0
	F-FUI-07120	failed	The FOS shall allow the user to invoke $C\text{-}255$		08335 324-CD-005-001/

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	Clarification	NCR ID
			quick analysis on the selected telemetry parameters.		
	F-FUI-07125	passed	The FOS shall allow the user to pause the display.		0
	F-FUI-07130	passed	The FOS shall allow the user to resume the display.		0
	F-FUI-07135	passed	The FOS shall label dynamically created displays as temporary.		0
	F-FUI-07140	passed	The FOS shall provide the capability to specify the real-time display data source(s).		0

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-FUI-07200	partially passed	The FOS shall provide alphanumeric		07842,08550,08551
			displays that are capable of displaying		
			the following:		
			a. the descriptor or mnemonic of a		
			telemetry parameter		
			b. the current state of a discrete		
			telemetry parameter		
			c. the current value of an analog		
			telemetry parameter		
			d. the current state of an analog		
			telemetry parameter based on a range		
			of predefined values		
			e. whether data associated with a		
			telemetry parameter is suspect (bad		
			quality)		
			f. whether data associated with a		

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			telemetry parameter is static		
			g. whether an analog telemetry value		
			has violated a range limit		
			h. whether an analog telemetry value		
			has violated a delta limit		
			i. descriptive labels		
			j. static descriptive text		
			k. horizontal and vertical separator		
			lines		
			I. Universal Time Coordinated (UTC)m.		
			spacecraft time		
			n. current orbit number		
			o. data source (real-time, replay,		
			simulated)		
			p. current major/minor frame counts		
			q. current telemetry format		
			r. current telemetry rate		
			s. spacecraft ld		

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-FUI-07205	passed	The FOS shall allow alphanumeric displays to display one or more telemetry parameters.		0
	F-FUI-07210	passed	The FOS shall load alphanumeric displays dynamically from a predefined format.		0
	F-FUI-07215	unverified	The FOS shall allow the user to change a telemetry parameter's label from descriptor to mnemonic.		07842
	F-FUI-07220	unverified	The FOS shall allow the user to change a telemetry parameter's label from mnemonic to descriptor.		07842

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-FUI-07225	failed	The FOS shall be capable of displaying	The raw format displays the bit string	04435
			a telemetry value in the following	extracted from the telemetry packet.	
			formats:	The decoded format displays the	
			a. converted	integer representation of the raw	
			b. decoded	value. The converted format displays	
			c. raw	the value of the parameter after its	
				decoded value has been subjected to a	
				parameter-specific conversion	
				function (e.g., apply a calibration curve	
				to the decode value).	
	F-FUI-07230	failed	The FOS shall be capable of displaying	A formated representation will either	07768, 04435
			a telemetry value in one of the	be a string, decimal integer, or	
			following representations:	floating-point number based upon the	
			a. formatted	parameter type and the specified	
			b. octal	format.	
			c. hex		
			d. binary		

C-260

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-FUI-07235	passed	The FOS shall allow the user to select		0
			telemetry parameters by using a		
			pointing device (e.g., mouse, trackball,		
			etc.).		
	F-FUI-07240	passed	The FOS shall allow the user to		0
			deselect telemetry parameters by		
			using a pointing device (e.g., mouse,		
			trackball, etc.) .		
	F-FUI-07245	failed	The FOS shall allow the user to change	The raw format displays the bit string	04435
			the display of selected telemetry	extracted from the telemetry packet.	
			values to any of the following formats:	The decoded format displays the	
				integer representation of the raw	
			a. converted	value. The converted format displays	
			b. decoded	the value of the parameter after its	
			c. raw	decoded value has been subjected to a	
				parameter-specific conversion	
				function (e.g., apply a calibration curve	

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
				to the decode value).	
	F-FUI-07250	failed	The FOS shall allow the user to change	A formatted representation will either	04435,
			the display representation of selected	be a string, decimal integer, or	07768
			telemetry values to one of the	floating-point number based upon the	
			following:	parameter type and the specified	
			a. formatted	format.	
			b. octal		
			c. hex		
			d. binary		
	F-FUI-07255	failed	The FOS shall prevent a change in the		04435, 08662
			displayed telemetry format when a		
			non-supported format for a particular		
			parameter is requested (i.e., when a		
			decoded format is requested for a		
			ground telemetry parameter).		
	F-FUI-12610	failed	The FOS shall include a master/major		08485
			C-262		324-CD-005-00

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			cycle count in the Display Builder		
			palette.		
FUI-2040B					
	F-FUI-01500	partially passed	The FOS shall perform a syntax check		08105, 08345
			of all directives entered by the user.		
	F-FUI-01505	partially passed	The FOS shall notify the user of		08105, 08345
			directive syntax errors.		
	F-FUI-01580	failed	The FOS shall provide a directive that		08770
			allows a user to execute a standard		
			UNIX shell command.		
			C. W. Crion Communa.		
	F-FUI-01595	passed	The FOS shall initiate a directive within		0
			C-263		324-CD-005-001/
					412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			.5 seconds.		
EU 2050D					
<u>FUI-2050B</u>	F-CMS-01820	failed	The FOS shall validate each field of each real-time command in a procedure.	Each field will be validated in accordance with command PDB definitions.	08655
	F-CMS-01825	failed	The FOS shall provide the capability to check the real-time commands in a	Command-level constraints are define in the PDB.	d 08655
			procedure against command-level constraints.		
	F-CMS-01830	failed	The FOS shall provide notification of command-level constraint violations in command procedures.		08655
	F-CMS-01835	unverified	The FOS shall provide the capability to		08655
			C-264		324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			allow "soft" command-level constraint	constraints, which cannot be violated	d,
			violations to remain in a command	and "soft" constraints, which can be	
			procedure.	allowed to remain in a command	
				procedure.	
	F-CMS-01840	failed	The FOS shall provide the capability to	The PDB will specify "hard"	08655
			prohibit "hard" command-level	constraints, which cannot be violated	d,
			constraint violations remaining in a	and "soft" constraints, which can be	
			command procedure.	allowed to remain in a command	
				procedure.	
	F-FUI-01510	partially passed	The FOS shall allow a user to specify		07540
			values within a directive in any of the		
			following formats:		
			a. decimal		
			b. hexadecimal		
			c. octal		
			d. binary		
			e. string		
			C-265		324-CD-005-

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			f. floating point		
			g. scientific notation		
			h. time		
			i. angles		
	F-FUI-01515	passed	The FOS shall allow a user to specify a	Conditional constructs include a	0
			conditional construct within a	switch-case structure and an	
			procedure.	if-then-else structure.	
	F-FUI-01520	passed	The FOS shall allow the nesting of		0
			conditional constructs.		
	F-FUI-01525	passed	The FOS shall allow a user to specify		0
			iterative loop constructs within a		
			procedure. The loop constructs shall		
			include:		
			C-266		324-CD-005-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			a. while loop (test condition prior to		
			entering loop)		
			b. until loop (test condition at the end of		
			the loop)		
			c. for loop (includes an initialization		
			expression, a conditional expression		
			used to terminate the loop, and a loop		
			expression that is executed at the end		
			of each loop iteration)		
	F-FUI-01530	passed	The FOS shall allow the nesting of loop		0
			constructs.		
	F-FUI-01535	passed	The FOS shall be capable of		0
			prematurely terminating conditional loop		
			execution (i.e., procedure execution		
			jumps to the first directive following the		
			C-267		324-CD-005-00

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			end of the loop).		
	F-FUI-01538	passed	The FOS shall allow a procedure to reference telemetry parameters.	This includes spacecraft and ground telemetry.	0
	F-FUI-01540	passed	The FOS shall allow a user to specify temporary variables within a		0
	F-FUI-01545	failed	The FOS shall allow a user to specify temporary variable arrays within a		08538
	F-FUI-01550	passed	The FOS shall allow a user to specify comments within a procedure.		0

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-FUI-01555	passed	The FOS shall allow a user to define labels within a procedure.		0
	F-FUI-01560	passed	The FOS shall allow a user to specify a jump to a labeled statement within a procedure.		0
	F-FUI-01570	passed	The FOS shall allow a procedure to accept arguments when invoked.		0
	F-FUI-01585	partially passed	The FOS shall provide arithmetic and logical operators for use within procedures. These operators are identified in the following table.	Operators within the same precedence level will be evaluated from left to	05579

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			Operator precedence is listed from		
			highest to lowest.		
			Directive Operators		
			Operator Function Arity Precedence		
			++ Increment variable unary 1		
			Decrement variable		
			! Logical NOT		
			~ Bitwise complement unary 2		
			- Arithmetic negation		
			+ Unary plus		
			* Multiplication		
			/ Division binary 3		
			% Modulus		
			+ Arithmetic addition binary 4		
			- Arithmetic subtraction		
			<< Left shift binary 5		
			>> Right shift		
			< Less than		

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			<= Less than or equal to		
			> Greater than binary 6		
			>= Greater than or equal to		
			== Equality		
			!= Inequality		
			& Bitwise AND binary 7		
			^ Bitwise exclusive OR binary 8		
			Bitwise inclusive OR binary 9		
			&& Logical AND binary 10		
			Logical OR binary 11		
			// Concatenation binary 12		
	F-FUI-01590	passed	The FOS shall allow the use of	Parentheses have the highest	0
			parentheses to group arithmetic and	precedence during the evaluation of	
			logical operations within a directive.	arithmetic and logical operations.	

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	Clarification	NCR ID
	F-FUI-01591	passed	The FOS shall provide built-in functions		0
			for use within a directive. These		
			functions are defined in the following		
			table.		
			ECL BUILT-IN FUNCTIONS		
			Function NameDescription		
			acostrigonometric arc cosine		
			function		
			asintrigonometric arc sine function		
			atantrigonometric arc tangent		
			function		
			costrigonometric consine function		
			sintrigonometric sine function		
			tantrigonometric tangent function		
			coshhyperbolic consine function		

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			atala a di kamanda Parata a Karata a		
			sinhhyperbolic sine function		
			tanhhyperbolic tangent function		
			expexponential function		
			lognatural logarithm function		
			log10base-10 logarithm function		
			powpower function		
			sqrtnonnegatie square root		
			function		
	F-FUI-02800	partially passed	The FOS shall provide a user the		08792
			capability to create procedures.		
	F-FUI-02805	passed	The FOS shall provide an authorized		0
			user the capability to edit existing		
			procedures.		

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-FUI-02810	passed	The FOS shall provide a user the	The following procedure types will be	0
			capability to save procedures	implemeneted for FOS:	
			according to one of the following	Emergency - a procedure that contains	
			procedure types:	command directives that perform an	
			a. emergency	emergency operation (e.g., safe an	
			b. command	instrument). The policy for classifying	
			c. ground	a procedure as an emergency	
			d. local	procedure will be determined by the	
			e. activity	FOT.	
			f. user-defined categories	Command - a non-emergency	
				procedure that contains at least one	
				command directive.	
				Ground - a procedure that contains at	
				least one ground system directive.	
				Local - a procedure that contains no	
				command or ground system directives.	
				Activity - a procedure created as part	

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
				of a Planning and Scheduling activity definition. User-defined - a category type defined by the user.	
	F-FUI-02815	passed	The FOS shall provide a user the capability to save a procedure according to its spacecraft identifier.		0
	F-FUI-02820	passed	The FOS shall provide a user the capability to save a procedure according to its instrument identifier.	A procedure may be saved according to both its spacecraft and instrument identifiers (e.g., AM-1, CERES-Aft).	0
	F-FUI-02825	passed	The FOS shall provide a user the capability to identify the author of each procedure.		0

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-FUI-02830	passed	The FOS shall verify that the procedure	For example, a procedure containing a	0
			directives are consistent with the	command directive cannot be saved as	
			procedure type, except for	a local procedure. No consistency	
			user-defined procedures, when a	checking will be performed for	
			save operation is attempted.	procedures saved under a	
				user-defined category.	
	F-FUI-02835	passed	The FOS shall provide an authorized user the capability to delete existing procedures.		0
	F-FUI-02840	failed	The FOS shall provide a user the capability to print existing procedures.		08656
	F-FUI-02845	passed	The FOS shall provide a user the following procedure editing capabilities:		0

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Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			a. cut/copy/paste text		
			b. delete text		
			c. insert text		
			d. search for text strings		
			e. replace text strings		
	F-FUI-02850	partially passed	The FOS shall be capable of checking		07615, 08007,
			the syntax of a procedure.		07532
	F-FUI-02855	passed	The FOS shall display the current	The syntax and validation status	0
			procedure syntax check status.	indicators will be saved with the	
				procedure text when a save operation	า
				is performed.	
	F-FUI-02860	passed	The FOS shall provide a user the	Procedures will be validated by the	0
			capability to request validation of	Command Management Subsystem.	
			procedures.	Validation status, including all errors	
			C-277		324-CD-005-001/

412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
				detected will be not one day the EU	
				detected, will be returned to the FUI	
				Subsystem and displayed to the user.	
	F-FUI-02865	passed	The FOS shall display the current	The syntax and validation status	0
			procedure validation status.	indicators will be saved with the	
				procedure text when a save operation	1
				is performed.	
	F-FUI-02870	passed	The FOS shall display a list of directive		0
			keywords that the user may select		
			from to build procedure directives.		
	F-FUI-02875	passed	The FOS shall display a list of directive		0
			keyword qualifiers that the user may		
			select from to build procedure		
			directives. The qualifier list will		
			correspond to the selected keyword.		
			•		
	F-FUI-02880	passed	The FOS shall display a list of		0
			C-278		324-CD-005-001/
					412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			magning descriptors that the user		
			mnemonics descriptors that the user		
			may select from to build procedure		
			directives.		
	F-FUI-02885	passed	The FOS shall display a list of	The qualifier list will correspond to the	0
			mnemonic qualifiers that the user may	selected discrete mnemonic descriptor.	
			select from to build procedure		
			directives.		
	F-FUI-02890	passed	The FOS shall display a set of current	The set of limit values will correspond	0
			limit values that the user may select	to the selected analog mnemonic	
			from to build procedure directives.	descriptor.	
	F-FUI-02895	passed	The FOS shall provide a user the	Four limit values will be displayed:	0
			capability to insert the following items	high-red, high-yellow, low-yellow, and	
			into the procedure text:	low-red. If the user selects one of	
			a. directive keywords	these, a corresponding identifier (i.e., a	
			b. directive keyword qualifiers	symbolic constant such ad HIGH-RED)	

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			c. mnemonics	will be inserted into the procedure.	
			d. mnemonic qualifiers (for mnemonics	This will allow the procedure to	
			with discrete values)	reference the proper limit value from	
			e. limit identifiers (for mnemonics with		
				the project data base when the	
			analog values)	procedure is executed.	
FUI-2060B					
	F-CMD-01315	failed	The EOC shall be capable of		08694
			transmitting commands from a		
			command procedure consisting of one		
			or more commands.		
	F-CMD-03215	unverified	The EOC shall require a user		08694
			authorization (allow or cancel) prior to		
			uplinking a critical command,		
			regardless of its origin (operator input,		
			command procedure, or ground script).		
	F-FUI-01565	passed	The FOS shall allow procedures to		0
			C-280		324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			invoke other procedures.		
	F-FUI-06100	partially passed	The FOS shall allow an authorized user	In general, all users will be authorized	08694
			to invoke a procedure at a specified	to execute local procedures since the	
			time.	directives in this type of procedure	
				only impact the user's workspace	
				(e.g., display specified pages in the	
				current room). Only a Command	
				Activity Controller may execute a	
				procedure that contains command	
				directives. Such a procedure (e.g.,	
				command procedures or emergency	
				procedures) may be merged with the	
				currently executing ground script	
				directives after evaluating its impact	
				with respect to the current	

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
				commanding activities. Similarly, or	ıly
				specific users will be authroized to	
				execute ground procedures that	
				contain directives to configure the	
				ground system resources.	
	F-FUI-06105	passed	The FOS shall allow a user to terminat	e	0
			an executing procedure.		
	F-FUI-06110	passed	The FOS shall allow a user to suspend	I	0
			an executing procedure.		
	F-FUI-06115	passed	The FOS shall allow a user to resume	a	0
			suspended procedure.		
	F-FUI-06120	passed	The FOS shall allow multiple local		0
			C-282		324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			procedures to execute simultaneously.		
	F-FUI-06125	failed	The FOS shall allow only one ground	Multiple local procedures may execute	08692
			system procedure per logical string to	simultaneously since the directives in	
			execute at any time.	these procedures only affect the	
				user's workstation. Command	
				procedures and emergency	
				procedures, which contain spacecraft	
				or instrument commands, will be	
				merged with the executing ground	
				script directives when they are	
				invoked by the Command Activity	
				Controller. Therefore, only one	
				command procedure can be active at	
				any given time. Similarly, FOS will	
				ensure that only one ground system	

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
				procedure is active at any time for a logical string in order to avoid conflicts in ground system resource allocation.	
	F-FUI-06130	passed	The FOS shall provide a display that allows a user to monitor the execution of a non-command procedure invoked from the user's workstation.	This display is activated when the non-command procedure is invoked. A non-command procedure is one that contains no spacecraft or instrument commands. command procedures can only be executed by a user with command authority and are merged with the currently executing ground script. Users may monitor the execution of a command procedure via the Command Control Display or the	0
				Command Monitor Display (reference Section 9.1.6.3).	

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-FUI-06135	passed	The FOS shall provide a display that	This display, which is activated when	0
			allows a user to control the execution	the procedure is invoked, allows a	
			of a non-command procedure invoked	user to suspend, resume, or terminate	
			from the user's workstation.	the non-command procedure.	
				command procedures are merged with	1
				the ground script directives and are	
				controlled via the Command Control	
				Display (reference Section 9.1.6.3).	
FUI-2080B					
	F-FUI-12800	partially passed	The FOS shall provide the capability to	The FOS cannot automatically validate	e 08048
			import and convert OASIS procedures.	the procedures. It is the explicit	
			Any OASIS directives that are not	responsibility of the FOT to manually	
			directly convertible to ECL directives	convert any unconverted directives.	
			will be flagged as "UNCONVERTED".	An FOT member must designate and	
				sign off each procedure as valid.	
FUI-2090B					
	F-FOS-00420	passed	The FOS shall require unique sessions		0
			C-285		324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			for each operator that access the FOS.		
	F-FOS-00430	passed	The FOS shall require a unique user		0
			identification and password for each		
			individual user.		
	F-FUI-01400	passed	The FOS shall provide a login screen		0
			that allows a user to enter a user name		
			and password.		
	F-FUI-01405	passed	The FOS shall allow a user to specify a		0
			user type (e.g., CAC, OLE, PI/TL, etc.)		
			for the current login session.		
	F-FUI-01410	passed	The FOS shall allow a user to have one	A user may be specified as only one	0
			or more user types.	user type at any given time.	

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-FUI-01415	passed	The FOS shall allow a user to switch to	Users will be assigned one or more	0
			an alternate user type during a	user types by the PI/TL (IST sites) or	
				EOC Manager (EOC). A user may	
				switch between these assigned user	
				types during a session.	
	F-FUI-01425	passed	The EOC shall provide the capability for	The available EOC user types will be:	0
			an EOC Manager to enter a list of	operations coordinator, ops	
			authorized EOC users.	controller/shift supervisor, ground	
				controller, spacecraft activity	
				controller, instrument	
				evaluator/controller, spacecraft	
				evaluator, flight systems engineer,	
				spacecraft engineer, instrument	
				engineer, mission planner/supervisor,	
				command management analyst,	

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
				spacecraft planner, instrument planner, ground systems engineer, system specialist, database manager, and software maintenance engineer.	
	F-FUI-01435	passed	The EOC shall provide the capability for an EOC Manager to delete EOC users from the system.		0
	F-FUI-01445	passed	The EOC shall provide the capability for an EOC Manager to change the user types for EOC users in the system.	r	0
FUI-2100B	F-FUI-01100	passed	The FOS shall provide access to all room definitions in the system.		0

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-FUI-01105	passed	The FOS shall provide the capability to define a room.		0
	F-FUI-01110	passed	The FOS shall provide the capability to modify a room.		0
	F-FUI-01115	failed	The FOS shall provide the capability to save a room.		08671
	F-FUI-01120	unverified	The FOS shall provide the capability to delete a room.		07835
	F-FUI-01125	partially passed	The FOS shall allow a room to consist $C\text{-}289$		08654 324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			of 0 to 12 windows, with their		
			respective sizes and positions in their		
			default, tiled and user modified states.		
	F-FUI-01130	passed	The FOS shall allow a window to		0
			belong to more than one room.		
	F-FUI-01135	passed	The FOS shall allow windows to		0
			overlap each other.		
	F-FUI-01140	passed	The FOS shall allow a window to have		0
			a name.		
	F-FUI-01145	passed	The FOS shall provide the capability to		0
			define the default position and size of		
			each of the windows in a room.		
			C-290		324-CD-005-001/
					412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	Clarification	NCR ID
	F-FUI-01150	passed	The FOS shall provide the capability to define the tiled position and size of each of the windows in a room.		0
	F-FUI-01155	passed	The FOS shall provide the capability to add windows to a room dynamically.		0
	F-FUI-01160	passed	The FOS shall provide the capability to delete windows from a room dynamically.		0
	F-FUI-01165	passed	The FOS shall provide the capability to switch from one room to another dynamically.		0

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	Clarification	NCR ID
	F-FUI-01170	passed	The FOS shall provide the capability to		0
			dynamically reposition windows in a		
			room.		
	F-FUI-01175	passed	The FOS shall provide the capability to		0
			dynamically resize windows in a room.		
	F-FUI-01180	partially passed	The FOS shall provide the capability for		08654
			a user to dynamically switch between		
			room states.		
FUI-2110B					
	F-FUI-02600	passed	The FOS shall provide the user a		0
			palette of available widgets from which		
			the user may dynamically build a		

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			real-time display.		
	F-FUI-02605	passed	The FOS shall allow the user to drag		0
			widgets via the pointing device from		
			the palette and drop them into the		
			display.		
	F-FUI-02610	passed	The FOS shall provide a palette that	Items n and o are combined on the	0
			shall include:	palette into a single separator object	t.
			a. label	The format for this object allows the	
			b. field	user to select the orientation	
			c. (deleted)	(vertical/horizontal).	
			d. (deleted)		
			e. (deleted)		
			f. graph		
			g. table		
			h. deleted)		
			i. (deleted)		
			j. (deleted)		
			C-293		324-CD-005

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			k. data source		
			I. (deleted)		
			m. (deleted)		
			n. horizontal separator		
			o. vertical separator		
			p. schematic graphic items (point, line,		
			icon, circle, rectangle, ellipse, and		
			polygon)		
	F-FUI-02630	passed	The FOS shall allow the user to save a		0
			real-time display definition as:		
			a. a local copy, and/or		
			b. a submission to the FOS CCB as		
			permanent, global copy.		
	F-FUI-02635	passed	The FOS shall allow the user to modify		0
			an existing real-time display definition.		

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-FUI-02640	passed	The FOS shall allow the user to delete	Temporary alphanumeric, table, and	0
			a real-time display definition.	graph displays can be automatically	
				defined and used immediately through	
				the quick analysis capability. See	
				section 9.1.9.4 for the detailed quick	
				analysis requirements.	
	F-FUI-03105	unverified	The FOS shall allow the user to select	An epoch would be selected when the	08367
			an epoch.	user wants to establish a reference	
				point in time. This could be used to	
				establish epochs for data sets from	
				different times, but with similar data.	
				The epochs would be used to "line up"	•
				the data at zero time on the graph.	
	F-FUI-07300	partially passed	The FOS shall provide graphs that are		08316
			capable of displaying the following:		
			a. up to six telemetry values vs. time,		
			C-295		324-CD-005-0

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			or		
			b. up to six telemetry values vs. a		
			telemetry value		
			c. the high and low, red and yellow		
			limits of the telemetry parameters as		
			lines(dotted, dashed or solid)		
			d. telemetry values as a		
			symbol(optional)		
			e. lines between telemetry parameters		
			(optional) shall be displayed as dotted,		
			dashed or solid		
			f. axis lines (displayed or not)		
			g. axis labels		
			h. axis scales		
			i. axis scale labels		
			j. optional grid lines (dotted, dashed or		
			solid)		
			k. title		

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			I. current range of time displayed		
			m. total range of time available		
			Ç		
	F-FUI-07305	passed	The FOS shall allow the user to select		0
			up to six telemetry parameters to		
			graph.		
	F-FUI-07310	passed	The FOS shall allow the user to plot		0
			data from different times and/or		
			different data sources on a two		
			dimensional graph.		
	F-FUI-07315	passed	The FOS shall display the minimum,		0
			current and maximum values of a		
			selected telemetry parameter within the		
			current visible area of the graph.		
	F-FUI-07320	passed	The FOS shall allow the user to select		0
			a telemetry parameter from the graph		
			C-297		324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			utilizing a pointing device.		
	F-FUI-07325	unverified	The FOS shall allow the user to select		08314
			a range of times or X values, from the		
			total range of time or X values		
			available, in which to view the data.		
	F-FUI-07330	passed	The FOS shall have the capability to		0
			capture all occurrences of a parameter		
			between screen updates, and then		
			display the captured data at the next		
			update.		
	F-FUI-07335	unverified	The FOS shall allow the user to zoom		08364
			in on the graph.		
	F-FUI-07340	unverified	The FOS shall allow the user to zoom		08364
			out from the graph.		
			C-298		324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	Clarification	NCR ID
	F-FUI-07345	passed	The FOS shall allow the user to select		0
			a line style with which a telemetry		
			parameter is displayed.		
	F-FUI-07350	passed	The FOS shall allow the user to select		0
			a symbol with which a telemetry		
			parameter is displayed.		
	F-FUI-07355	passed	The FOS shall allow the user to specify		0
			whether the graph shall display a grid.		
	F-FUI-07360	passed	The FOS shall allow the user to specify		0
			the grid line style (dotted, dashed or		
			solid).		

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-FUI-07365	unverified	The FOS shall allow the user to specify the grid granularity.		08362
	F-FUI-07370	unverified	The FOS shall allow the user to specify which high and low, red and yellow limit lines to display.		08361
	F-FUI-07375	passed	The FOS shall allow the user to specify limit line style (dotted, dashed, or		0
	F-FUI-07380	unverified	The FOS shall allow the user to select the axis granularity.		08362
	F-FUI-07385	passed	The FOS shall allow the user to select $$\textsc{C-}300$$		0 324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	Clarification	NCR ID
			the axis scale labels.		
	F-FUI-07388	passed	The FOS shall allow the user to specify		0
			the axis labels.		
	F-FUI-07390	passed	The FOS shall allow the user to specify		0
			the graph title.		
	F-FUI-07391	passed	The FOS shall allow the user to insert a		0
			graph legend.		
	F-FUI-07392	passed	The FOS shall allow the user to save a		0
			graph.		

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-FUI-07394	passed	The FOS shall print graphs in either		0
			landscape or portrait orientation.		
	F-FUI-07396	passed	The FOS shall allow the user to print up		0
			to 4 graphs per page.		
	= =::: -===		T. T.O		
	F-FUI-07398	unverified	The FOS shall provide the visual		08368
			indication that a telemetry value does not exist within the requested time		
			span.		
			opa		
	F-FUI-07400	unverified	The FOS shall provide tables that are		08305,08375,
			capable of displaying the following:		08314
			a. up to 50 discrete and analog		
			real-time telemetry values over a		
			specified time interval		
			C-302		324-CD-005-001/ 412-CD-002-001
					112 CD -002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			b. the associated time at each interval		
			c. the descriptor or mnemonic of each		
			telemetry value		
			d. title		
			e. current range of time displayed		
	F-FUI-07410	unverified	The FOS shall allow the real-time table	This will allow for 10 minutes work	08781
			display to have a maximum of 300	data at a 2 second update rate.	
			rows of data. Once the maximum has		
			been reached, the oldest rows are		
			removed as newer rows are added.		
	E EU 07445	<i>**</i>	TI 500 I II II II II II II		2222 2225
	F-FUI-07415	unverified	The FOS shall provide the user with		08305,08375
			the capability to specify whether the		
			telemetry value is represented by its		
			mnemonic or descriptor.		
	F-FUI-07425	passed	The FOS shall provide the user with		0
	1 1 01-07 423	passeu	the capability to capture all		V
			C-303		324-CD-005-001/

412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			occurrences of a telemetry value		
			between screen updates, and then		
			display the captured data at the next		
			screen update.		
FUI-2115B					
	F-FUI-02610	passed	The FOS shall provide a palette that	Items n and o are combined on the	0
			shall include:	palette into a single separator object	
			a. label	The format for this object allows the	
			b. field	user to select the orientation	
			c. (deleted)	(vertical/horizontal).	
			d. (deleted)		
			e. (deleted)		
			f. graph		
			g. table		
			h. deleted)		
			i. (deleted)		
			j. (deleted)		
			k. data source		
			C-304		324-CD-005-001/

412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			I. (deleted)		
			m. (deleted)		
			n. horizontal separator		
			o. vertical separator		
			p. schematic graphic items (point, line,		
			icon, circle, rectangle, ellipse, and		
			polygon)		
	F-FUI-07370	passed	The FOS shall allow the user to specify		0
			which high and low, red and yellow		
			limit lines to display.		
	F-FUI-07500	passed	The FOS shall provide a display of		0
			two-dimensional schematic drawings.		
	F-FUI-07505	passed	The FOS schematic drawings shall		0
			C-305		324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	Clarification	NCR ID
			contain:		
			a. points		
			b. lines		
			c. icons		
			d. text		
			e. circles		
			f. rectangles		
			g. ellipses		
			h. polygons		
	F-FUI-07510	passed	The FOS shall color code schematic		0
			components, changing colors		
			according to the telemetry parameter		
			limits.		
	F-FUI-07515	passed	The FOS shall drive the color coded		0
			schematic components with telemetry		
			values.		

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-FUI-07520	passed	The FOS shall provide the user the capability to save a snapshot of the schematic.		0
	F-FUI-07525	passed	The FOS shall provide the user the capability to print a snapshot of the schematic.		0
<u>FUI-2120B</u>	F-DMS-01475	passed	The EOC shall obtain the Long Term Science Plan (LTSP).	The LTSP will be downloaded from an SMC web page.	0
	F-DMS-01480	passed	The EOC shall obtain the Long Term Instrument Plan (LTIP).	The LTIP will be downloaded from an SMC web page.	0

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-FUI-02400	passed	The FOS shall allow the user to browse on-line technical documentation.		0
	F-FUI-02410	passed	The FOS shall provide a document reader with a search capability.		0
	F-FUI-02415	passed	The document reader shall provide the following navigational schemes:	Hypertext trace back provides the ability to bring up pages that the user	0
			a. hypertext forwardb. hypertext trace backc. page forward	previously viewed.	
			d. page backward e. jump to home page (table of contents)		
			f. search/find on a keyword		

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-FUI-02420	passed	The FOS shall provide the user with		0
			the capability to cancel document		
			retrieval requests.		
	E EU 00405		The FOC shall are side the way with		0
	F-FUI-02425	passed	The FOS shall provide the user with		0
			the capability to open one or more		
			document reader windows.		
	F-FUI-02430	passed	The FOS shall provide a history trace		0
			window that will keep track of where		
			the user has been throughout a		
			document viewing session.		
	F-FUI-02435	passed	The FOS shall provide the user with		0
	1 -1 01-02400	passeu			U
			the capability to clear the document		
			reader history trace window.		

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-FUI-02440	passed	The FOS shall provide the capability to input a document.		0
	F-FUI-02445	passed	The FOS shall provide the capability to update a document.		0
	F-FUI-02450	passed	The FOS shall provide the capability to delete a document.	The capability to input, udpate, and delete a document will be procedural limited to the FOT document manage	
FUI-2130B	F-FUI-02500	passed	The FOS shall provide an electronic mail (e-mail) capability.		0
	F-FUI-02505	passed	The FOS shall allow the user to send $C310$		0 324-CD-005-001/

412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			an e-mail message to multiple destinations.		
	F-FUI-02510	passed	The FOS shall allow a destination to be designated either: a. a user b. a position		0
	F-FUI-02515	passed	c. a site The FOS shall allow the user to attach a file to an e-mail message.		0
	F-FUI-02520	passed	The FOS shall provide the user a simple editor for composing an e-mail message.		0

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-FUI-02525	partially passed	The FOS shall provide the user the		08381
			following e-mail editing capabilities:		
			a. cut		
			b. copy		
			c. paste		
			d. delete		
			e. undo		
	F-FUI-02530	passed	The FOS shall provide the user a		0
			method for replying to an e-mail		
			message that was sent.		
	F-FUI-02535	passed	The FOS shall allow the user to list all		0
			received messages.		
	F-FUI-02540	passed	The FOS shall allow the user to save		0
			an e-mail message.		
			C-312		324-CD-005-001/

412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-FUI-02545	nagad	The FOS shall allow the user to delete		0
	F-FUI-02545	passed			Ü
			an e-mail message.		
	F-FUI-02550	partially passed	The FOS shall provide the user the		08378
			following e-mail viewing capabilities:		
			a. view previous message		
			b. view next message		
			c. find a message by:		
			1. date/time		
			2. author		
			3. subject keyword search		
FUI-2140B					
	F-FUI-02100	passed	The FOS shall allow a quick message		0
			to contain a maximum of 240		
			characters.		
			C-313		324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	Clarification	NCR ID
	F-FUI-02110	passed	The FOS shall visually delineate		0
			emergency quick messages from		
			information, warning, and alarm quick		
			messages.		
FUI-2150B					
	F-FUI-02700	passed	The FOS shall allow the user to		0
			browse on-line help documentation.		
	F-FUI-02705	passed	The FOS shall provide the user with		0
			the capability to cancel any help data		
			retrieval.		
	F-FUI-02710	passed	The FOS shall provide the user with		0
			the capability to open one or more help		
			C-314		324-CD-005-001/

412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			windows.		
	F-FUI-02715	partially passed	The FOS shall provide the user with		08333
			the capability to request help		08484,08546
			information from any FOS window.		
	F-FUI-02720	passed	The FOS shall provide the user a help		0
			screen that displays help information		
			pertinent to the display or activity the		
			user is involved in when the user		
			requests help.		
	E EU 00705		The FOO shall associate a halo associa	University of the control of the first	
	F-FUI-02725	passed	The FOS shall provide a help screen	Hypertext trace back provides the	0
			with the following navigational	ability to bring up help pages that the	
			schemes:	user previously viewed.	
			a. hypertext forward		
			b. hypertext trace back		
			c. page forward		
			C-315		324-CD-005-001/

412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			d. page backward		
			e. jump to home page (table of		
			contents)		
			f. search/find on a keyword		
HRD-2000B					
	F-FOS-00450	passed	The EOC LAN shall be able to perform	The network address filtering	0
			filtering based on network address to	allow/disallows access for particular	
			control access for external and internal	hosts or groups of hosts.	
			interfaces.		
	F-FOS-00455	passed	The EOC LAN shall be able to perform	The TCP socket number provides	0
			filtering based on TCP socket number	filtering based on network application	
			to control access for external and	such as Telnet, FTP, mail, finger, etc.	
			internal interfaces.		
	F-FOS-00460	passed	The EOC LAN shall be able to perform	The protocol allows to filter based on	0
			filtering based on protocol to control	type of protocol, such as TCP/IP, Apple	
			access for external and internal	Talk, DECnet.	

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Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	Clarification	NCR ID
			interfaces.		
	F-HRD-00005	passed	Each Real-Time Server shall be physically and functionally identical in supporting the FOS processing		0
			requirements.		
	F-HRD-00010	passed	The Real-Time Server shall include a CRT to be used as the local systems operations console.		0
	F-HRD-00015	passed	The Real-Time Server shall be		0
			upgradeable/expandable with additional quantities and types of peripherals.		
	F-HRD-00020	passed	The Real-Time Server shall be upgradeable/replaceable within the		0
			C-317		324-CD-005-001/

412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	Clarification	NCR ID
			same product family without the need		
			for any perturbation of any software		
			or replacement of any peripheral or		
			attached component.		
	F-HRD-00025	passed	At a minimum, the Real-Time Server		0
			processor shall meet the following		
			capacity and functional requirements:		
			a.POSIX compliant IEEE 1003.1		
			operating system (UNIX)		
			b. POSIX compliant IEEE 1003.4		
			real-time extension		
			c Shall support 2 FDDI interface cards.		
	F-HRD-00030	passed	Real-Time Server disk drives shall		0
			provide a minimum of 4 gigabytes and		
			shall be upgradeable to 8 gigabytes.		

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	Clarification	NCR ID
	F-HRD-00035	passed	All disk drives serving a specific		0
			function (e.g. system and applications		
			software, or data storage) shall be		
			identical and will have equal capacity.		
	F-HRD-00040	passed	Each Real-Time Server shall support		0
			one tape drive.		
	F-HRD-00045	passed	Each Real-Time Server tape drive shall		0
			have the following characteristics:		
			a. 4mm Digital Audio Tape (DAT) format		
			b. Accept industry standard magnetic		
			4mm DAT (i.e. DDS-90)		
			c. Data transfer rate of 400KB/sec		
	E 1100 4				
	F-HRD-00050	passed	The Real-Time Server tape drives shall		0
			C-319		324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			be upgradeable/replaceable within the		
			same product family.		
	F-HRD-00055	nagand	Fook Book Time Conversional compart		0
	F-HKD-00055	passed	Each Real-Time Server shall support		U
			one CD-ROM drive.		
					_
	F-HRD-00060	passed	Each Real-Time Server CD-ROM drive		0
			shall have the following		
			characteristics:a. Accept 600MB		
			Compact Disk		
					_
	F-HRD-00065	passed	The cabinet shall provide a RETMA		0
			standard 19 inches of equipment		
			mounting width.		
	F-HRD-00070	passed	The cabinet shall be a minimum of 54"		0
			and a maximum of 72" tall, with		
			C-320		324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	Clarification	NCR ID
			standard 19" rack mounts.		
	F-HRD-00075	passed	The cabinet shall provide a minimum of 24 inches of equipment mounting depth.		0
	F-HRD-00090	passed	The cabinet shall provide earth continuity for all components within.		0
	F-HRD-00095	passed	The cabinet shall provide sufficient equipment ventilation.		0
	F-HRD-00100	passed	The cabinet shall supply a minimum of one power controller.		0

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-HRD-01005	passed	At a minimum, each processor shall		0
			meet the following capacity and		
			functional requirements:		
			a. POSIX compliant IEEE 1003.1		
			operating system (UNIX)		
			b. Support AUI 802.3 ethernet		
			connection.		
			c. Support 2GB internal disk.		
	F-HRD-01010	passed	Each User Station shall provide one		0
			QWERTY keyboard which shall:		
			a. Be detachable and cabled for		
			movement on a desk-top style		
			workstation area		
			b. Provide a minimum of 12		
			programmable function keys		
	F-HRD-01015	partially passed	Each User Station shall provide one		07527
			C-322		324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			color text and graphics display device		
			which shall:		
			a. Display the complete ASCII character		
			set		
			b. Provide a minimum of 1024 pixel x		
			864 lines resolution display		
			c. Display a minimum of 16 colors		
			d. Display pages 24 lines by 80		
			characters wide		
			e. Display a minimum of four screen		
			display pages		
			f. Display pages readable from any		
			location along the width of the		
			workstation and up to a distance of 6		
			feet from the screen		
			g. Provide a minimum of 17 inches		
			diagonal non-glare screen		
			h. Provide RGB video output for hard		

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	Clarification	NCR ID
			сору		
			i. Feature an integral swivel/tilt base		
			j. Provide brightness, contrast and		
			power controls within easy reach.		
			k. Be physically relocatable within the		
			operations center		
	F-HRD-01020	passed	The User Station shall provide one		0
			cursor pointing device (mouse)		
	F-HRD-01025	passed	The User Station shall be		0
			upgradeable/replaceable within the		
			same product family.		
	F-HRD-01030	passed	The video hardcopy device shall		0
			provide a minimum of 16 colors.		
			C-324		324-CD-005-001/

412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	Clarification	NCR ID
	F-HRD-01035	passed	The video hardcopy device shall be		0
			physically relocatable within the EOC.		
	F-HRD-01040	passed	The video hardcopy device shall be		0
			capable of printing 2 pages per minute.		
	F-HRD-01045	passed	The video hardcopy device shall be		0
			controlled from a remote control.		
	F-HRD-02005	passed	The Data Server processors shall be		0
			physically and functionally identical in		
			supporting the FOS processing		
			requirements.		
			C-325		324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-HRD-02010	passed	Each Data Server shall include a CRT		0
			or window to be used as the local		
			systems operations console.		
	F-HRD-02015	passed	Each Data Server shall be		0
			upgradeable/expandable with		
			additional quantities and types of		
			peripherals.		
	F-HRD-02020	passed	Each Data Server shall be		0
			upgradeable/replaceable within the		
			same product family without the need		
			for any perturbation of any software		
			or replacement of any peripheral or		
			attached component.		
	F-HRD-02025	passed	At a minimum, each Data Server		0
			processor shall meet the following		

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Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			capacity and functional requirements:		
			a. POSIX compliant IEEE 1003.1		
			Operating System (UNIX)		
			b. Shall support 2 FDDI interface cards.		
	F-HRD-02030	passed	Data Server disk drives shall provide a		0
			minimum of 4 gigabytes and shall be		
			upgradeable to 8 gigabytes.		
	F-HRD-02035	passed	All drives serving a specific function		0
			(e.g. system and applications		
			software, or data storage) shall be		
			identical and will have equal capacity.		
	F-HRD-02040	passed	Each Data Server shall support one		0
			tape drive.		
	F-HRD-02045	passed	Each Data Server tape drive shall have		0
			C-327		324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			the following characteristics:		
			a. 4mm Digital Audio Tape format		
			b. Accept industry standard magnetic		
			4mm DAT (i.e. DDS-90)		
			c. Data transfer rate of 400KB/sec		
	F-HRD-02050	passed	The Data Server tape drives shall be		0
			upgradeable/replaceable within the		
			same product family.		
	F-HRD-02055	passed	Each Data Server shall support one		0
			CD-ROM drive.		
	F-HRD-02060	passed	Each Data Server CD-ROM drive shall		0
			have the following characteristics:		
			a. Accept 600MB Compact Disk		
	F-HRD-02065	passed	The Data Server CD-ROM drives shall		0
			C-328		324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			be upgradeable/replaceable within the		
			same product family.		
			same product family.		
	F-HRD-02070	passed	The cabinet shall provide a RETMA		0
			standard 19 inches of equipment		
			mounting width.		
	E UDB 00075		-		
	F-HRD-02075	passed	The cabinet shall provide a minimum of		0
			34 vertical Units (1 Unit = 1.75") of		
			equipment mounting height.		
	F-HRD-02080	passed	The cabinet shall provide a minimum of		0
			24 inches of equipment mounting		
			depth.		
	F-HRD-02095	passed	The cabinet shall provide earth		0
			continuity for all components within.		
			C-329		324-CD-005-001/
					412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-HRD-02100	passed	The cabinet shall provide sufficient equipment ventilation.		0
	F-HRD-02105	passed	The cabinet shall supply a minimum of one power controller.		0
	F-HRD-03005	passed	Shall be compatible with POSIX compliant operating systems.		0
	F-HRD-03010	passed	Shall be accessible from servers and workstations on the network.		0

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-HRD-03015	passed	The RAID storage shall provide a minimum of 40 usable gigabytes.	Amount of addressable disk after RAID has been implemented.	0
	F-HRD-03020	passed	All RAID drives shall be identical and have equal capacity.		0
	F-HRD-03025	passed	RAID shall support RAID level-5: striping with interleaved parity.	Disk striping with interleaved parity.	0
	F-HRD-03030	passed	Disks shall be Hot Swappable.	Parts are replaceable while device is powered on.	0
	F-HRD-03035	passed	Power supplies for the RAID shall be hot-swappable.		0

Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
F-HRD-03040	partially passed	The RAID unit shall be network		08043
		attached or hosted to a minimum of 2		
		front-end processors.		
F-HRD-03045	passed	The RAID unit shall have a data		0
		transfer rate of 10MB per second.		
F_HPD_04005	bassed	There shall be a minimum of five		0
1 11KD 04000	passed	system printers located at the EOC.		Ü
F-HRD-04010	passed	The system printers shall be physically		0
		and functionally identical in supporting		
		the FOS printing requirements.		
	F-HRD-03045 F-HRD-04005	F-HRD-03040 partially passed F-HRD-03045 passed F-HRD-04005 passed	F-HRD-03040 partially passed The RAID unit shall be network attached or hosted to a minimum of 2 front-end processors. F-HRD-03045 passed The RAID unit shall have a data transfer rate of 10MB per second. F-HRD-04005 passed There shall be a minimum of five system printers located at the EOC.	F-HRD-03040 partially passed The RAID unit shall be network attached or hosted to a minimum of 2 front-end processors. F-HRD-03045 passed The RAID unit shall have a data transfer rate of 10MB per second. F-HRD-04005 passed There shall be a minimum of five system printers located at the EOC. F-HRD-04010 passed The system printers shall be physically and functionally identical in supporting

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	Clarification	NCR ID
	F-HRD-04015	passed	The printers shall be capable of printing 8 pages per minute.		0
	F-HRD-04020	passed	There shall be a minimum of two logging printers located at the EOC.		0
	F-HRD-04025	passed	Each logging printer shall be capable of printing a minimum of 1200 lines per minute.		0
	F-HRD-04030	passed	The printer shall support continuous feed paper.		0
	F-HRD-05005	passed	There shall be a minimum of two network time servers located at the		0

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	Clarification	NCR ID
			EOC.		
	F-HRD-05010	passed	The time reference for each network		0
			time server shall be a GFE NASA-36 bit		
			serial time code signal.		
	F-HRD-05015	passed	The time server shall support the		0
		·	network time protocol (NTP).		
			, ,		
	F-HRD-05020	passed	There shall be a minimum of two time		0
		·	code displays located at the EOC.		
			,		
	F-HRD-05025	partially passed	There shall be at least one up counter,		08046
			down counter and universal time code		
			display in the EOC.		

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	E LIDD 00005		-		
	F-HRD-06005	passed	The local area network shall support		0
			100Mbps bandwidth and 10 Mbps		
			baseband (different segments) as		
			described by the IEEE 802.3 standard,		
			and shall provide:		
			a. Data Integrity - The network shall		
			check for transmission errors.		
			b. Redundancy - Redundant		
			connectivity shall prevent a single point		
			of failure.		
			c. Expandability - The network must be		
			able to support up to 100 connections.		
	F-HRD-06010	passed	The EOC shall be designed with		0
		·	system test features to enable		
			checkout and test with minimum impact		
			on operations, including test points and		
			C-335		324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			permanently installed test equipment.		
	F-HRD-06015	passed	Test equipment to be provided include:		0
			a. One communications line monitor to		
			store and display up to 10,000 bytes of		
			data sent and received over any of		
			the communications lines at rates of		
			10MB/sec to 100MB/sec, and		
			supporting the protocols used by FOS.		
	F-HRD-07005	passed	The EOC shall provide (for AM-1) three		0
			(3) Real-Time Servers configured		
			with:		
			a. Six Fixed Disks (two per Real-Time		
			Server)		
			b. Three Tape Drives (one per		
			Real-Time Server)		
			C-336		324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	Clarification	NCR ID
			c. Three CD-ROM Drives (one per		
			Real-Time Server)		
			d. Three Operator Consoles (one per		
			Real-Time Server)		
			e. Three System Printers (one per		
			Real-Time Server)		
			f. Three Timing Interfaces (one per		
			Real-Time Server)		
	F-HRD-07010	partially passed	The EOC shall provide (36) User		07312
			Stations, which can perform any EOC		
			subsystem function.		
	F-HRD-07015	passed	The EOC shall provide three (3) Data		0
	1 1110 07010	paoood			· ·
			Servers configured with:		
			a. Six Fixed Disks (two per Data		
			Server)		
			b. Three Tape Drives (one per Data		
			Server)		
			C-337		324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			c. Three CD-ROM Drives (one per Data Server) d. Three Operator Consoles (one per Data Server)		
	F-HRD-07017	passed	The EOC shall provide one Data Storage Unit supporting RAID level 5.		0
	F-HRD-07020	passed	The EOC shall provide a redundant Local Area Network.		0
	F-HRD-07025	passed	All EOC workstations and processors shall be capable of operating simultaneously and independently.		0

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
<u>IST-2000B</u>					
	F-ANA-01010	unverified	The FOS shall be able to access all	The archived telemetry data would	08766
			archived telemetry data for analysis.	need to be in an FOS standard format.	
				It is also required that the applicable	
				data base be provided as well.	
	F-FOS-00175	unverified	The EOC shall administer the allocation	Allocation of IST connections will be	08766
			of IST connections to the EOC.	administered based on the policy as	
				defined in the IST Capabilities	
				Document for the ECS Project	
				(194-00602TPW).	
	F-FOS-00180	unverified	The EOC shall monitor IST connections	The status monitored tells the EOC if	08766
			for changes in status.	the IST is logically connected to the	
				EOC.	
	F-FOS-00605	unverified	The FOS shall enable the existence of		08766
			additional ISTs if required by the PI/TL		

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Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			to accommodate instrument team		
			members, who may be at		
			geographically separate locations.		
	F-FOS-10210	unverified	The FOS shall support up to 15	The FOS will employ a floating pool	08766
			operational ISTs for the AM-1 mission	concept whereby it manages the ISTs	
			that are connected to the EOC at any	that are connected to the FOS. Up to	
			one time.	15 unique ISTs distributed between the	e
				AM-1 instruments may be connected	
				to the EOC concurrently.	
	F-FOS-10215	unverified	The FOS shall provide ten dedicated,		08766
			simultaneous IST connections at the		
			following locations:		
			a. CERES: 2 in building 1250, LaRC,	2	
			in building TBD		
			b. MODIS: 2 at GSFC		
			c. MOPITT: 1 at University of Toronto;		
			1 at NCAR in Boulder		
			C-340	3	324-CD-005-0

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	Clarification	NCR ID
			d. MISR: 2 at JPL		
	F-FOS-10220	unverified	The FOS shall provide six (6)		08766
			additional, non-dedicated IST		
			connections at the following locations:		
			a. CERES: 4 [1 at SAIC, 1 at building		
			1300, LaRC; 1 each at 2 other buildings		
			TBD, LaRC		
			b. MODIS: 1 at GSFC		
	F-FOS-10225	unverified	The FOS shall provide an IST software		08766
			tool kit to the AM-1 spacecraft		
			integration and test facility.		
	F-FOS-10230	unverified	The FOS shall provide a single IST		08766
			connection to the AM-1 spacecraft		
			integration and test facility.		

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
IST-2010B					
	F-ANA-01025	unverified	The FOS shall be able to access all	System generated statistics includes	08779
			system generated statistics data files	MMM statistics based on orbital, daily,	
			for analysis.	monthly, and mission to date intervals,	
				out of limits information based on daily	
				and monthly intervals, and discrete	
				parameter state change information	
				based on daily and monthly intervals.	
	F-ANA-01030	unverified	The FOS shall allow the user to access	A dataset is defined to be user	08771
			a previously saved dataset for	specified data from a contiguous	
				period of time from a single spacecraft.	
				The dataset will have a standardized	
				format which is described in the FOS	
				Operations Tools Manual.	
	F-ANA-02030	unverified	The FOS shall have the capability to		08801

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			utilize more than one valid data base if		
			the time interval requested for data		
			analysis spans an interval during		
			which more than one database was		
			utilized for operations.		
	F-ANA-02050	unverified	The FOS shall provide the capability to	The user specified database can be	08801
			override the automatic data base	any FOS validated database.	
			selection by the system and process		
			an analysis request using a data base		
			specified by the user.		
	F-ANA-03100	unverified	The FOS shall provide the capability to		08801
			process a request for telemetry MMM		
			data at daily resolution for any time		
			span greater than or equal to one day.		
	F-ANA-03110	unverified	The FOS shall provide the capability to		08801
			process a request for telemetry MMM		

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Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			data at monthly resolution for any time		
			span greater than or equal to one		
			month.		
	F-ANA-03120	unverified	The FOS shall provide the capability		08801
			process a request for telemetry MMM		
			data at orbit night resolution for any		
			time span greater than or equal to one		
			orbit.		
	F-ANA-03125	unverified	The FOS shall provide the capability		08801
			process a request for telemetry MMM		
			data at orbit day resolution for any time		
			span greater than or equal to one		
	E ANA 20422		T1 F00 I II I II I III		00770
	F-ANA-03130	unverified	The FOS shall provide the capability		08779
			process a request for telemetry MMM		
			data at full orbit resolution for any time		
			span greater than or equal to one orbit.		

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Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-ANA-03180	unverified	The FOS shall provide the capability to		08779
			process a request for discrete		
			parameter state change statistics data		
			at daily resolution for any time span		
			greater than or equal to one day.		
	F-ANA-03190	unverified	The FOS shall provide the capability to		08779
			process a request for discrete		
			parameter state change statistics data		
			at monthly resolution for any time span		
			greater than or equal to one month.		
	F-ANA-03200	unverified	The FOS shall provide the capability to		08801
	7 7447 00200	diivoimod			00001
			request and access a report for out of		
			limits statistics data at a daily resolution		
			for any time span greater than or		
			equal to one day.		
	F-ANA-03210	unverified	The FOS shall provide the capability to		08801
			C-345		324-CD-005-0

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			request and access a report out of limits statistics data at monthly resolution for any time span greater than or equal to one month.		
	F-ANA-04020	unverified	The FOS shall be able to generate datasets from archived S/C telemetry.	S/C data is stored in a merged archive of real-time and recorder data. Since this merged archive contains both types, the datasets generated may also contain both, depending on the time span of the dataset.	08801
	F-ANA-04040	unverified	The FOS shall provide the capability to generate datasets from data base defined derived parameters.		08771
	F-ANA-04050	unverified	The FOS shall provide the capability to generate a dataset from the results of		08768

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			a user supplied algorithm.		
	F-ANA-04120	unverified	The FOS shall provide the capability to generate datasets in the carryout format.	Carryout file format is described in the FOS Operations Tools Manual.	08801
	F-ANA-04310	unverified	The FOS shall provide the capability to build ASCII reports from the system generated telemetry MMM statistics		08779
	F-ANA-04360	unverified	The FOS shall produce a Time Ordered Downlink Report for the time interval requested by the user.		08801
	F-ANA-06020	unverified	The FOS shall provide the capability to curve-fit a parameter to a polynomial of		08768

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Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			user specified order, up to order 9.		
	F-ANA-06021	unverified	The FOS shall provide the capability to apply a Fast Fourier Transform (FFT) to		08768
			a parameter.		
	F-ANA-06022	unverified	The FOS shall provide the capability to smooth a parameter by a user		08768
			specified factor. Smoothing means that every N data points, where N is		
			the user specified factor, are averaged to yield a single data point.		
	F-ANA-06023	unverified	The FOS shall provide the capability to		08768
			compute the Root Mean Square (RMS)		
			of a parameter.		

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-ANA-06040	unverified	The FOS shall provide the capability to	The User algorithms shall be written in	08768
			apply a user supplied algorithm to data	the 'C' or 'C++' language and be	
			maintained in the telemetry archive.	compiled and linked into a data object	
				appropriate for dynamic linking on the	
				target platform.	
	F-ANA-06050	unverified	The FOS shall provide the capability to		08768
			utilize data contained within a dataset		
			as input into a user supplied algorithm.		
	F-ANA-08060	unverified	The FOS shall provide the capability to		08801
			selectively decommutate only those		
			parameters which are required to fulfill		
			the analysis request.		
	F-CMD-02215	unverified	The EOC shall provide the capability to		08742
			assemble commands from command		
			mnemonic requests.		

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	Clarification	NCR ID
	F-CMD-05310	unverified	The EOC shall provide the IP-ICC with	a The following are examples of possible	e 08742
			final instrument uplink status, with a	status:	
			failure status to indicate the point of	-rejected by EOC	
			failure.	-transmitted, not received by	
				spacecraft	
				-received by spacecraft;	
				unsuccessfully executed	
				(or)	
				-dispatched to instrument;	
				unsuccessfully executed	
				-successfully executed.	
				Status is provided via event message:	3
				visible at the IST user interface.	
	F-CMD-05410	unverified	The EOC shall provide an IP-ICC with	For example, by the EOC. Notification	
			instrument command notification	is provided via event messages visible	•
			C-350		324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			messages, when emergency or contingency instrument commands are issued by other than the IP-ICC.	at the IST user interface.	
	F-CMS-00720	passed	The FOS shall provide the capability to specify the content of an RTS load based on the contents of a previously defined RTS load.		0
	F-CMS-00725	unverified	The FOS shall provide the capability to accept an RTS load content imported from the Science Computing Facility (SCF).		08745
	F-CMS-00728	unverified	The FOS shall provide the capability to accept an RTS load content imported from the Software Development and Validation Facility (SDVF).		08745

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-CMS-00729	unverified	The EOC shall validate the source and destination of RTS load content generated externally to the FOS.		08745
	F-CMS-00730	unverified	The FOS shall provide the capability to validate RTS contents.	The FOS will validate RTS contents using the definition of the RTS buffer characteristics in the PDB.	08745
	F-CMS-00850	unverified	The EOC shall generate an RTS load report whenever an RTS load is generated.	All load reports generated will be made available to the IOT through use of the IST.	08745
	F-CMS-00915	unverified	The EOC shall provide the capability to generate an RTS Catalog Report listing load content name associated with each RTS load available for uplink in the EOC.		07622

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Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-CMS-00930	unverified	The EOC shall provide the capability to		07622
			generate an RTS Map Report listing the		
			name of the load content that is		
			currently loaded into each RTS buffer.		
	F-CMS-00950	unverified	The FOS shall provide the capability to		07622
			generate a Memory Map Report listing		
			the memory location (offset within an		
			RTS) and contents of each location in		
			an RTS buffer.		
	F-CMS-01025	unverified	The FOS shall provide the capability to		07622
			accept a Table load content imported		
			from the Science Computing Facility		
			(SCF).		
	F-CMS-01150	unverified	The EOC shall generate a table load	All load reports generated will be made	07622
			report whenever a table load is	available to the IOT through use of the	
			generated.	IST.	

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-CMS-01215	unverified	The EOC shall provide the capability to		07622
			generate a Table Catalog Report listing		
			load content name and valid uplink		
			window associated with each table		
			load available for uplink in the EOC.		
	F-CMS-01225	unverified	The EOC shall provide the capability to		07622
			generate a Table Map Report listing the		
			name of the load content that is		
			currently loaded into each table.		
	F-CMS-01305	unverified	The FOS shall provide the capability to		08744
			accept a microprocessor load content		
			imported from the Science Computing		
			Facility (SCF).		
	F-CMS-01330	unverified	The EOC shall generate a	All load reports generated will be made	08744
			microprocessor load report whenever	available to the IOT through use of the	
			C-354		24-CD-005-001/
				4	412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			a microprocessor load is generated. IST	г.	
	F-CMS-01360	unverified	The EOC shall provide the capability to		08744
			generate a Microprocessor Catalog		
			Report listing load content name and		
			valid uplink window associated with		
			each microprocessor load available for		
			uplink in the EOC.		
	F-CMS-01405	unverified	The FOS shall provide the capability to		08744
			accept a flight software load content		
			imported from the Software		
			Development and Validation Facility		
			(SDVF).		
	F-CMS-01410	unverified	The EOC shall validate the source and		08744
			destination of binary format flight		
			software load content generated		

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			externally to the FOS.		
	F-CMS-01430	unverified	The EOC shall generate a flight	All load reports generated will be made	08744
			software load report whenever a flight	available to the IOT through use of the	
			software load is generated.	IST.	
	F-CMS-01460	unverified	The EOC shall provide the capability to		08744
			generate a Flight Software Catalog		
			Report listing load content name and		
			valid uplink window associated with		
			each flight software load available for		
			uplink in the EOC.		
	F-CMS-01505	unverified	The EOC shall provide the capability to	The Integrated Report will be made	07834
			produce an integrated report which	available to the IOT via the IST.	
			includes the following information in		
			chronological order:		
			a. Absolute time commands to be		

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			executed		
			b. Relative time commands to be		
			executed		
			c. Scheduled spacecraft contacts		
			d. Real-time commands to be uplinked		
			e. Loads to be uplinked		
			f. Expected orbital events		
	F-CMS-01725	unverified	The FOS shall provide the capability to	Memory dump images will be exported	d 08515
			export instrument memory dump	via the IST.	
			images to the SCF.		
	F-CMS-01730	unverified	The FOS shall provide the capability to		008515
			export memory dump images to the		
			SDVF.		
	F-CMS-01820	unverified	The FOS shall validate each field of	Each field will be validated in	08741
			C-357		324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			each real-time command in a procedure.	accordance with command PDB definitions.	
	F-CMS-01825	unverified	The FOS shall provide the capability to check the real-time commands in a procedure against command-level constraints.	Command-level constraints are defined in the PDB.	08741
	F-CMS-10510	unverified	The FOS shall provide the capability to send the ATC Load Report to the ASTER ICC.	The ASTER ICC will have the capability to view and print these reports through the standard IST user interface. Refer to the ICD Between ECS and ASTER GDS for more information.	06940
	F-CMS-10750	unverified	The FOS shall provide the capability to send the RTS Load Report to the ASTER ICC.	The ASTER ICC will have the capability to view and print these reports through the standard IST user interface. Refer	06940

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
				to the ICD Between ECS and ASTER GDS for more information.	
	F-CMS-11510	unverified	The FOS shall provide the capability to send the Integrated Report to the ASTER ICC.	The ASTER ICC will have the capability to view and print these reports through the standard IST user interface. Refer to the ICD Between ECS and ASTER GDS for more information.	07834
	F-DMS-00205	failed	The EOC shall provide authorized users the capability to add telemetry definitions to the PDB.	Authorized users are those persons given data base privileges such as the data base administrator.	08736
	F-DMS-00210	failed	The EOC shall provide authorized users the capability to delete telemetry definitions maintained in the PDB.		08736

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	E DMC 00045	follow!	The FOC shall are tide outle sized		00720
	F-DMS-00215	failed	The EOC shall provide authorized		08736
			users the capability to modify telemetry		
			definitions maintained in the PDB.		
	F-DMS-00220	failed	The EOC shall provide authorized		08736
			users the capability to add command		
			definitions to the PDB.		
	F-DMS-00225	failed	The EOC shall provide authorized		08736
			users the capability to delete command		
			definitions maintained in the PDB.		
	F-DMS-00230	failed	The EOC shall provide authorized		08736
			users the capability to modify command		
			definitions maintained in the PDB.		

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-DMS-00235	failed	The EOC shall provide authorized	PAS has assumed responsibility for	08736
			users the capability to add activity	this requirement.	
			definitions to the PDB.		
	F-DMS-00240	failed	The EOC shall provide authorized	PAS has assumed responsibility for	08736
			users the capability to delete activity	this requirement.	
			definitions maintained in the PDB.		
	F-DMS-00245	failed	The EOC shall provide authorized	PAS has assumed responsibility for	08736
			users the capability to modify activity	this requirement.	
			definitions maintained in the PDB.		
	F-DMS-00250	failed	The EOC shall provide authorized	PAS assumes responsibility for activity	08736
			users the capability to add constraint	level constraint definitions.	
			definitions to the PDB.		

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Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-DMS-00255	failed	The EOC shall provide authorized	PAS assumes responsibility for activity	08736
			users the capability to delete constraint	level constraint definitions.	
			definitions maintained in the PDB.		
	F-DMS-00260	failed	The EOC shall provide authorized	PAS assumes responsibility for activity	08736
			users the capability to modify	level constraint definitions.	
			constraint definitions maintained in the		
			PDB.		
	F-DMS-01290	passed	The FOS shall provide the capability to	Local events are display only for the	0
			generate either local or global events.	user (IST or USER Station) that's	
				involved in a "dedicated service " (e.g.,	
				dedicated relay or other standalone	
				operations); Global events are	
				multicast to all ISTs and User Stations.	

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-DMS-01400	unverified	The FOS shall provide the capability to ingest ASCII table load contents.	ASCII table load contents may be ingested from external facilities such as an SDVF.	08743
	F-FOS-00317	unverified	The EOC shall receive flight software loads from the Software Development and Validation Facility (SDVF).	Reference the Interface Control Document between the EOC and SDVF for specifics pertaining to this interface.	08744
	F-FOS-00318	unverified	The EOC shall send flight software dumps to the Software Development and Validation Facility (SDVF).	Reference the Interface Control Document between the EOC and SDVF for specifics pertaining to this	08744
	F-FOS-00430	passed	The FOS shall require a unique user identification and password for each individual user.	interface.	0

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Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-FOS-00465	passed	The IST toolkit shall provide data integrity services for remote IST users	The use of the data integrity services for sending information from the IST to	0
			communicating with the EOC.	the EOC will be evaluated on a	
				case-by-case basis.	
	F-FOS-00470	unverified	The FOS shall provide the capability to authenticate users without sending passwords in the clear across networks.		08802
	F-FOS-00475	unverified	The FOS shall provide the capability to		08802
			limit access of EOC files to authenticated IST users.		
			danishisada ier door.		
	F-FOS-00480	unverified	The FOS shall provide authentication,		08802
			authorization, and data integrity services that can be used by ISTs		
			located inside and outside the United		

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Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	Clarification	NCR ID
			States.		
	F-FUI-01120	unverified	The FOS shall provide the capability to delete a room.		06805
	F-FUI-01125	unverified	The FOS shall allow a room to consist of 0 to 12 windows, with their respective sizes and positions in their		06805
	F-FUI-01150	unverified	default, tiled and user modified states. The FOS shall provide the capability to define the tiled position and size of each of the windows in a room.		06805
	F-FUI-01170	unverified	The FOS shall provide the capability to dynamically reposition windows in a room.		06805

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	Clarification	NCR ID
	F-FUI-01175	unverified	The FOS shall provide the capability to dynamically resize windows in a room.		06805
	F-FUI-01180	unverified	The FOS shall provide the capability for a user to dynamically switch between room states.		06805
	F-FUI-01200	failed	The FOS shall provide the capability to specify the default printer.		08470
	F-FUI-01205	failed	The FOS shall provide the capability to specify the default data directories within the system.		08489
	F-FUI-01215	failed	The FOS shall provide the capability to C-366		08490 324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			specify the default color intensities for		
			the real-time windows.		
	F-FUI-01220	passed	The FOS shall provide the capability to	The selection of colors will be from a	0
			specify the default colors for non	predefined palette as defined in the	
			real-time windows.	ECS User Interface Style Guide.	
	F-FUI-01225	passed	The FOS shall provide the capability to		0
			select the default font styles to be		
			used from a predefined selection.		
	F-FUI-01230	failed	The FOS shall provide the capability to		08491
			modify the quick access room		
			selections in the control window.		
	F-FUI-01340	failed	The FOS shall allow the user to initiate		08794
			functions using function keys.		
			C-367		324-CD-005-001/

412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	Clarification	NCR ID
	F FIN 04400		The FOC shall associate a legin course		
	F-FUI-01400	passed	The FOS shall provide a login screen that allows a user to enter a user name		0
			and password.		
	F-FUI-01405	passed	The FOS shall allow a user to specify a user type (e.g., CAC, OLE, PI/TL, etc.)		0
			for the current login session.		
	F-FUI-01415	unverified	The FOS shall allow a user to switch to	Users will be assigned one or more	08802
			an alternate user type during a	user types by the PI/TL (IST sites) or	
				EOC Manager (EOC). A user may	
				switch between these assigned user	
				types during a session.	
	F-FUI-01420	unverified	The IST shall provide the capability for		08802

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	Clarification	NCR ID
			a PI/TL to enter a list of authorized IST users.		
	F-FUI-01430	unverified	The IST shall provide the capability for a PI/TL to delete IST users from the		08802
			system.		
	F-FUI-01440	unverified	The IST shall provide the capability for		08802
			a PI/TL to change the user types for IST users in the system.		
	F-FUI-01565	unverified	The FOS shall allow procedures to invoke other procedures.		08741
	F-FUI-01580	unverified	The FOS shall provide a directive that		08078
			allows a user to execute a standard C-369		324-CD-005-001/
			C-369		324-CD-005-001/

412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	Clarification	NCR ID
			UNIX shell command.		
	F-FUI-01600	passed	The FOS shall provide the capability to		0
			specify the type of screen snap to perform, which includes:		
			a. snap to a printer b. snap to a file		
	F-FUI-01605	passed	The FOS shall provide the capability to		0
			snap a window.		
	F-FUI-01610	failed	The FOS shall provide the capability to specify the color intensities for the		08490
			real-time windows.		
	F-FUI-01615	passed	The FOS shall provide the capability to The sele	ection of colors will be from a	0
			C-370		324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	Clarification	NCR ID
			specify the colors for non real-time	predefined palette as defined in the	
			windows.	ECS User Interface Style Guide.	
	F-FUI-01620	passed	The FOS shall provide the capability to		0
			select the font styles to be used from a		
			predefined selection.		
	F-FUI-02100	passed	The FOS shall allow a quick message		0
			to contain a maximum of 240		
			characters.		
	F-FUI-02202	unverified	The FOS shall allow users to delete		08078
			files from their local storage area.		
	F-FUI-02205	unverified	The FOS shall allow the user to		08078
			request files to be sent from other FOS		
			C 271		224 CD 005 001
			C-371		324-CD-005-00

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			user station or server.		
	F-FUI-02210	unverified	The FOS shall allow the user to select files from available categories.		08078
	F-FUI-02215	unverified	The FOS shall provide a find capability for selecting files.	The find capability allows the user to type in text, and highlights the closes alphabetic candidate.	
	F-FUI-02220	unverified	The FOS shall provide a method to select multiple files to be sent to multiple destinations.		08078
	F-FUI-02230	unverified	The FOS shall provide a list of candidate destinations from which to select the destinations for the file		08078
			C-372		324-CD-005-001/

412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			transfer.		
	F-FUI-02235	unverified	The FOS shall allow the user to deselect files that were selected.		08078
	F-FUI-02240	unverified	The FOS shall provide a notification to		08078
			the user that: a. a file transfer is in progress b. a file transfer has been completed		
			c. a file transfer error has occurred		
	F-FUI-02315	unverified	The FOS shall allow the user to pause the replay data sequence.	Replay data includes telemetry, NCC UPD Messages, and EDOS CODA Reports.	08343
	F-FUI-02320	unverified	The FOS shall allow the user to resume	Replay data includes telemetry, NCC	08343
			the paused replay data sequence. $C\text{-}373$	UPD Messages, and EDOS CODA Reports.	324-CD-005-00

324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-FUI-02325	unverified	The FOS shall provide the user the		08343
			capability to reset the begin time when		
			the replay is in pause mode.		
	F-FUI-02330	unverified	The FOS shall provide a visual		08343
			indication of the location of the replay		
			data. This display will include:		
			a. start time		
			b. stop time		
			c. position of current time		
	F-FUI-02335	unverified	The FOS shall provide the user a reset		08343
			capability that will reset the replay time		
			to the last established begin time.		
	F-FUI-02600	passed	The FOS shall provide the user a		0
			C-374		324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			palette of available widgets from which		
			the user may dynamically build a		
			real-time display.		
	F-FUI-02635	passed	The FOS shall allow the user to modify		0
	r-r 0r-02033	passeu			U
			an existing real-time display definition.		
	F-FUI-02840	unverified	The FOS shall provide a user the		08741
			capability to print existing procedures.		
	F-FUI-02860	unverified	The FOS shall provide a user the	Procedures will be validated by the	08741
			capability to request validation of	Command Management Subsystem	
			procedures.	Validation status, including all errors	
				detected, will be returned to the FUI	
				Subsystem and displayed to the use	r.
	F-FUI-02920	unverified	The FOS shall provide the capability to		07834
			C-375		324-CD-005-

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			create a custom report template		
			composed of the following information:		
			A0011 (1)		
			a. ASCII files		
			b. off-line analysis products		
			c. screen snaps		
			d. blocks of descriptive text		
	F-FUI-02950	unverified	The FOS shall provide the capability to		07834
			save a report template.		
	F-FUI-02955	unverified	The FOS shall provide the capability to		07834
	F-F01-02955	unvenned			07634
			modify an existing report template.		
	F-FUI-02960	unverified	The FOS shall provide the capability to		07834
			delete a report template.		
			C-376		324-CD-005-00

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-FUI-02980	unverified	The FOS shall provide the capability to	An off-line analysis product is either 1)	08801
			insert a specified off-line analysis	a snapshot of a table or graph	
			product into a report.	produced by an analysis request, or 2)	
				an analysis report.	
	= =		-		
	F-FUI-02990	unverified	The FOS shall provide the capability to		07834
			insert predefined blocks of text into a		
			report.		
	F-FUI-02991	unverified	The FOS shall provide the capability to		07834
			insert routine reports into a report.		
	F-FUI-02995	unverified	The FOS shall provide the capability to		07834
			save a completed report.		

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-FUI-03000	unverified	The FOS shall provide the capability to		07834
			initiate the printing of a completed		
			report.		
	F-FUI-03005	unverified	The FOS shall provide the capability to		07834
			initiate the report browser/editor with a		
			completed report.		
	F-FUI-03025	unverified	The FOS shall provide the capability to		07834
			display a list of existing report		
			templates.		
	F FI II 00000	······································	The FOO shall are identicated in the same hills at		07004
	F-FUI-03030	unverified	The FOS shall provide the capability to		07834
			display a list of existing reports.		
	F-FUI-03035	unverified	The FOS shall provide the capability to		07834
			C-378		324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			initiate the report template builder with		
			a template selected from the template		
			list.		
	F-FUI-03040	unverified	The FOS shall provide the capability to		07834
			initiate the report generator with a		
			template selected from the template list.		
	F-FUI-03045	unverified	The FOS shall provide the capability to		07834
			select a report from the report list for		
			browsing or editing.		
	F-FUI-03050	unverified	The FOS shall provide the capability to		07834
			display an existing report.		
	F-FUI-03055	unverified	The FOS shall provide the capability to		07834
			print an existing report.		
			C-379		324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	Clarification	NCR ID
	F-FUI-03060	unverified	The FOS shall provide the capability to		07834
			edit an existing report.		
	F-FUI-03061	unverified	The FOS shall provide the capability to		07834
			save an existing report.		
	F-FUI-04050	unverified	The FOS shall provide the capability to		08743
			specify mission schedule access		
			permissions on a timeline display.		
	F-FUI-04090	unverified	The FOS shall provide the capability to		08743
			display the start and end times of the Detailed Activity Schedule on the		
			C-380		324-CD-005-001/

412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			timeline display.		
	F-FUI-04100	unverified	The FOS shall provide the capability to		08743
			highlight activities that violate hard and		
			soft constraints on the timeline display.		
	F-FUI-04130	unverified	The FOS shall provide the capability to		08743
			display the time period that a load is		
			valid for uplink on the timeline display.		
	F-FUI-04140	unverified	The FOS shall provide the capability to		08743
			display detailed information about		
			activities and events selected from the		
			timeline display.		
	F-FUI-04280	unverified	The FOS shall provide the capability to		08743
			display the limit of orbit data from the		
			FDF on the timeline.		

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-FUI-05105	unverified	The FOS shall provide an authorized		08327
			user the capability to enter table data		
			into a template using the data from an		
			existing table load.		
	F-FUI-05200	unverified	The FOS shall allow an authorized user		08327
			to enter RTS data that will be used to		
			generate an RTS load.		
	F-FUI-05205	unverified	The FOS shall provide an authorized		08327
			user the capability to request the		
			generation of an RTS load.		
	F-FUI-05315	unverified	The FOS shall provide a user the		08327
			capability to display the contents of a		
			ground script with expanded		

C-382

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			procedures.		
	F-FUI-05340	unverified	The FOS shall provide a user the		08741
			capability to print a ground script with		
			expanded procedures.		
	F-FUI-05400	unverified	The FOS shall provide a user the		08743
			capability to display the		
			command-to-memory map of an ATC		
	F-FUI-05500	unverified	The FOS shall provide a user the		08327
			capability to display the map of the RTS		
			buffers.		
	F-FUI-05605	unverified	The EOS shall provide a user the	The Planning and Schoduling and CMS	09227
	F-FUI-05005	unvermea	The FOS shall provide a user the	The Planning and Scheduling and CMS	06327
			capability to generate a load uplink	subsystems generate the appropriate	
			directive for a selected load.	load uplink directives as part of the	

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
				scheduling process. This scheduling	
				procedure is available to any	
				authorized user, not just the CAC.	
				Load uplink directives will normally be	е
				placed into procedures to direct the	
				uplink.	
	F-FUI-05705	passed	The FOS shall provide the capability for		0
			the user to input the data needed to		
			build the load initiate command.		
	F-FUI-05725	failed	The FOS shall provide the capability to		08744
			ingest binary microprocessor and flight		
			software load contents.		
	F-FUI-05730	failed	The FOS shall provide the capability to	ASCII table load contents may be	08327
			ingest ASCII RTS load contents.	ingested from external facilities such	
				as an SDVF.	
			C-384		324-CD-005-001/

412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-FUI-06115	unverified	The FOS shall allow a user to resume a suspended procedure.		08741
	F-FUI-06120	unverified	The FOS shall allow multiple local procedures to execute simultaneously.		08741
	F-FUI-06130	unverified	The FOS shall provide a display that allows a user to monitor the execution of a non-command procedure invoked from the user's workstation.	This display is activated when the non-command procedure is invoked. A non-command procedure is one that contains no spacecraft or instrument commands. command procedures can	08741
				only be executed by a user with command authority and are merged with the currently executing ground script. Users may monitor the	

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
				execution of a command procedure of the Command Control Display or the Command Monitor Display (reference Section 9.1.6.3).	
	F-FUI-06135	unverified	The FOS shall provide a display that allows a user to control the execution of a non-command procedure invoked from the user's workstation.	This display, which is activated when the procedure is invoked, allows a user to suspend, resume, or terminate the non-command procedure. command procedures are merged with the ground script directives and are controlled via the Command Control Display (reference Section 9.1.6.3).	е
	F-FUI-06200	unverified	The FOS shall provide an authorized user the capability to generate a command request that contains: a. a procedure to execute C-386		08742 324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			b. any instructions that the FOT should follow.		
	F-FUI-06205	unverified	The FOS shall provide an authorized user the capability to send a command request to the Ops Controller.		08742
	F-FUI-06210	unverified	The EOC shall notify the Ops Controller of pending command requests.		08742
	F-FUI-06215	unverified	The FOS shall display the status of the pending and accepted command requests. The status display shall contain: a. request Id b. request summary c. status (i.e., accepted, pending)	A pending status indicates that the command request has not been evaluated. An accepted status indicates that the command request has been approved. Once the CAC merges the command request with the ground script directives, the entry is	08742

C-387

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			d. originator	removed from the status display.	
			e. date/time received		
			f. date/time acted upon (accepted or		
			rejected).		
			g. instrument ld		
			h. spacecraft ld		
	F-FUI-06220	unverified	The FOS shall allow a user to display		08742
			the contents of a command request.		
	F-FUI-06225	unverified	The FOS shall notify the originator		08742
			when a command request is accepted.		
	F-FUI-06230	unverified	The FOS shall notify the originator		08742
			when a command request is rejected.		
			This notification shall contain the		
			C-388		324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			reason for the rejection.		
	F-FUI-06235	unverified	The EOC shall provide the CAC the		08742
			capability to merge the command		
			request procedure with the current		
			executing ground script directives.		
	F-FUI-06330	unverified	The FOS shall display the following		08742
			verification status for command		
			directives depending upon whether the		
			corresponding verification mode is		
			enabled:		
			a. prerequisite state check pass/fail		
			b. receipt of command at the		
			spacecraft/instrument pass/fail		
			(command verification)		
			c. execution of the command by the		
			spacecraft/instrument pass/fail		
			(telemetry verification)		

C-389

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-FUI-07100	passed	The FOS shall allow the user to select an update rate from 1 to 60 seconds.		0
	F-FUI-07120	failed	The FOS shall allow the user to invoke quick analysis on the selected telemetry parameters.		03967
	F-FUI-07125	passed	The FOS shall allow the user to pause the display.		0
	F-FUI-07130	passed	The FOS shall allow the user to resume the display.		0

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	Clarification	NCR ID
	F-FUI-07200	partially passed	The FOS shall provide alphanumeric		08334
			displays that are capable of displaying		
			the following:		
			a. the descriptor or mnemonic of a		
			telemetry parameter		
			b. the current state of a discrete		
			telemetry parameter		
			c. the current value of an analog		
			telemetry parameter		
			d. the current state of an analog		
			telemetry parameter based on a range		
			of predefined values		
			e. whether data associated with a		
			telemetry parameter is suspect (bad		
			quality)		
			f. whether data associated with a		
			telemetry parameter is static		
			g. whether an analog telemetry value		

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	Clarification	NCR ID
			has violated a range limit		
			h. whether an analog telemetry value		
			has violated a delta limit		
			i. descriptive labels		
			j. static descriptive text		
			k. horizontal and vertical separator		
			lines		
			I. Universal Time Coordinated (UTC)m.		
			spacecraft time		
			n. current orbit number		
			o. data source (real-time, replay,		
			simulated)		
			p. current major/minor frame counts		
			q. current telemetry format		
			r. current telemetry rate		
			s. spacecraft ld		
	F-FUI-07215	unverified	The FOS shall allow the user to change		08334

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			a telemetry parameter's label from		
			descriptor to mnemonic.		
	F-FUI-07220	unverified	The FOS shall allow the user to change		08334
			a telemetry parameter's label from		
			mnemonic to descriptor.		
	F-FUI-07245	passed	The FOS shall allow the user to change	The raw format displays the bit string	0
			the display of selected telemetry	extracted from the telemetry packet.	
			values to any of the following formats:	The decoded format displays the	
				integer representation of the raw	
			a. converted	value. The converted format displays	
			b. decoded	the value of the parameter after its	
			c. raw	decoded value has been subjected to a	
				parameter-specific conversion	
				function (e.g., apply a calibration curve	
				to the decode value).	

C-393

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-FUI-07250	partially passed	The FOS shall allow the user to change	A formatted representation will either	06355
			the display representation of selected	be a string, decimal integer, or	
			telemetry values to one of the	floating-point number based upon the	
			following:	parameter type and the specified	
			a. formatted	format.	
			b. octal		
			c. hex		
			d. binary		
	F-FUI-07255	passed	The FOS shall prevent a change in the		0
			displayed telemetry format when a		
			non-supported format for a particular		
			parameter is requested (i.e., when a		
			decoded format is requested for a		
			ground telemetry parameter).		
	E EU 07000	······································	The FOO shall are ideas are that are		0.4700
	F-FUI-07300	unverified	The FOS shall provide graphs that are		04723
			capable of displaying the following:		
			a. up to six telemetry values vs. time,		224 CD 005 001/
			C-394		324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			or		
			b. up to six telemetry values vs. a		
			telemetry value		
			c. the high and low, red and yellow		
			limits of the telemetry parameters as		
			lines(dotted, dashed or solid)		
			d. telemetry values as a		
			symbol(optional)		
			e. lines between telemetry parameters		
			(optional) shall be displayed as dotted,		
			dashed or solid		
			f. axis lines (displayed or not)		
			g. axis labels		
			h. axis scales		
			i. axis scale labels		
			j. optional grid lines (dotted, dashed or		
			solid)		
			k. title		

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			I. current range of time displayed		
			m. total range of time available		
	F-FUI-07305	unverified	The FOS shall allow the user to select		04723
			up to six telemetry parameters to		
			graph.		
	F-FUI-07310	unverified	The FOS shall allow the user to plot		04723
			data from different times and/or		
			different data sources on a two		
			dimensional graph.		
	F-FUI-07311	unverified	The FOS shall allow the user to plot	This requirement will be implemented	d 0
			data from different times and/or	Post Release B.	
			different data sources on a three		
			dimensional graph.		
	F-FUI-07315	unverified	The FOS shall display the minimum,		04723
			current and maximum values of a		
			C-396		324-CD-005-001/

412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			selected telemetry parameter within the		
			current visible area of the graph.		
	F-FUI-07320	unverified	The FOS shall allow the user to select		04767
			a telemetry parameter from the graph		
			utilizing a pointing device.		
	F-FUI-07325	unverified	The FOS shall allow the user to select		004723
			a range of times or X values, from the		
			total range of time or X values		
			available, in which to view the data.		
	F-FUI-07330	passed	The FOS shall have the capability to		0
			capture all occurrences of a parameter		
			between screen updates, and then		
			display the captured data at the next		
			update.		
	F-FUI-07345	unverified	The FOS shall allow the user to select		08777
			C-397		324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	Clarification	NCR ID
			a line style with which a telemetry		
			parameter is displayed.		
	F-FUI-07360	unverified	The FOS shall allow the user to specify		08777
			the grid line style (dotted, dashed or		
			solid).		
	F-FUI-07365	unverified	The FOS shall allow the user to specify		08777
			the grid granularity.		
	F-FUI-07370	unverified	The FOS shall allow the user to specify		08777
			which high and low, red and yellow		
			limit lines to display.		
	F-FUI-07375	unverified	The FOS shall allow the user to specify		08777
			C-398		324-CD-005-001/ 412-CD-002-001
					+12-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			limit line style (dotted, dashed, or		
	F-FUI-07388	unverified	The FOS shall allow the user to specify the axis labels.		08777
	F-FUI-07394	unverified	The FOS shall print graphs in either landscape or portrait orientation.		08777
	F-FUI-07396	unverified	The FOS shall allow the user to print up to 4 graphs per page.		08777
	F-FUI-07400	unverified	The FOS shall provide tables that are capable of displaying the following: a. up to 50 discrete and analog		08777
			real-time telemetry values over a		
			C-399		324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			specified time interval		
			b. the associated time at each interval		
			c. the descriptor or mnemonic of each		
			telemetry value		
			d. title		
			e. current range of time displayed		
	F-FUI-07415	unverified	The FOS shall provide the user with		08777
			the capability to specify whether the		
			telemetry value is represented by its		
			mnemonic or descriptor.		
	F-FUI-07425	passed	The FOS shall provide the user with		0
			the capability to capture all		
			occurrences of a telemetry value		
			between screen updates, and then		
			display the captured data at the next		
			screen update.		

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	Clarification	NCR ID
	F-FUI-07600	unverified	The FOS shall display the following		08197
			PDB information about discrete and		
			analog telemetry parameters:		
			a. the descriptor		
			b. the mnemonic		
			c. the valid states of a discrete		
			telemetry value		
			d. the conversion polynomial of an		
			analog telemetry value		
			e. the delta limits for a telemetry value		
			f. the high and low, red and yellow		
			limits for a telemetry value		
			g. the cycles from which the telemetry		
			value is extracted		
			h. the telemetry values on which a		
			derived telemetry value is based		
			i. parameter ld		
			j. spacecraft ld		

Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
F-FUI-07605	unverified	The FOS shall provide the user with		08197
		the capability to display up to 50		
		telemetry parameters and their		
		associated data in an Info window.		
F-FUI-07720	failed	The FOS shall provide one status		08698
		window for each logical string		
		connection.		
F-FUI-09112	unverified			06400
		Algorithms can be one of the following:		
		a. user-defined		
	F-FUI-07605	F-FUI-07605 unverified F-FUI-07720 failed	F-FUI-07605 unverified The FOS shall provide the user with the capability to display up to 50 telemetry parameters and their associated data in an Info window. F-FUI-07720 failed The FOS shall provide one status window for each logical string connection.	F-FUI-07605 unverified The FOS shall provide the user with the capability to display up to 50 telemetry parameters and their associated data in an Info window. F-FUI-07720 failed The FOS shall provide one status window for each logical string connection. F-FUI-09112 unverified The FOS shall provide the capability to specify a parameter for input to an algorithm when building an analysis request for historical data analysis. Algorithms can be one of the following:

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-FUI-09115	unverified	The FOS shall provide the capability for	Standing orders are described in section 9.1.9.3.	06400
			an analysis request to be submitted using the standing order process.	Section 9.1.9.3.	
	F-FUI-09140	unverified	The FOS shall provide the capability to	The request queue will display the	06400
			display a request queue of up to 10	following data for each request:	
			submitted analysis requests.	_a. request name	
				_b. estimated completion time of	
				requests gathering archived/local dat	a
				_c. estimated completion time for the	•
				decom processing of requusts (if	
	F-FUI-09145	unverified	The FOS shall provide the capability to	Requests with the same priority will b	e 06400
			assign priority to a pending request in	processed on FIFO basis.	
			the request queue.		
	F-FUI-09150	unverified	The FOS shall provide the capability to		06400
			C-403		324-CD-005-001/

412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			delete a request from the request queue display.		
	F-FUI-09160	unverified	The FOS shall provide the capability to select output products for a completed analysis request.	The output products that can be selected are graphs and tables.	06400
	F-FUI-09200	unverified	The FOS shall provide the capability to display off-line analysis results in the following output views: a. graph b. table c. analysis report		06400
	F-FUI-09210	unverified	The FOS shall provide the capability to print analysis results.		06400

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-FUI-09215	unverified	The FOS shall provide the capability to save analysis output view formats.		06400
	F-FUI-09220	unverified	The FOS shall provide the capability to		06400
			modify analysis output view formats. Format options include the following: a. engineering units		
			b. raw values c. time		
	F-FUI-09225	unverified	The FOS shall provide the capability to use existing data sets as input for analysis requests.		06400
	F-FUI-09300	unverified	The FOS shall accept and process analysis requests containing at a		06400
			minimum:		324-CD-005-0

324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			a. date/time to start processing the		
			request		
			b. date/time to stop processing the		
			request		
			c. request interval (every n passes,		
			every n orbits, every n hours, every n		
			days, every n weeks, every n months)		
			d. telemetry analysis requests		
			e. report templates		
			f. request name		
			g. name of the person who submitted		
			the request		
	F-FUI-09305	unverified	The FOS shall generate telemetry		06400
			analysis requests and/or report		
			requests at the specified request		
			interval from the start date to the stop		
			date.		

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-FUI-09310	unverified	The FOS shall receive the associated		06400
	1 1 01 00010	divermed			00400
			telemetry analysis data sets, at each		
			request interval, and will initiate the		
			generation of the output products		
			based on the telemetry analysis and/or		
			report requests.		
	F-FUI-09315	unverified	The FOS shall produce status for		08629
			executing standing orders.		
	F-FUI-09350	unverified	The FOS standing order browser shall		08629
			provide information on standing orders		
			including, at a minimum:		
			a. request name		
			b. next interval start time		
			c. standing order status (i.e. active,		
			halted, processing, completed)		
			C-407		324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	Clarification	NCR ID
			d. name of person who submitted the		
			request		
	F-FUI-09355	unverified	The FOS standing order browser shall		08629
			provide the capability to sort the		
			standing orders by the following		
			criteria including at a minimum:		
			a. request name		
			b. next interval start time		
			c. standing order status		
			d. name of person who submitted		
			request		
	F-FUI-09360	unverified	The FOS shall allow the user to view		08629
			the results of a completed standing		
			order.		
	F-FUI-09363	unverified	The FOS shall allow an authorized user		08629

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			to modify the standing order's interval.		
	F-FUI-09365	unverified	The FOS shall enable an authorized		08629
			user to suspend a standing order.		
	F-FUI-09370	unverified	The FOS shall enable an authorized		08629
			user to resume a standing order.		
	= =: u		-		
	F-FUI-09375	unverified	The FOS shall enable an authorized	The author, CAC, or PI/TL would be the	9 08629
			user to delete a standing order.	only users authorized to suspend,	
				resume or delete a standing order.	
	F FUI 00440	un varified	The FOC shall provide the following	Doguiromonto for alabamina	00774
	F-FUI-09410	unverified	The FOS shall provide the following	Requirements for alphanumeric	08771
			output views for real-time analysis	telemetry displays are in 9.1.7.2,	•
			C-409		24-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			requests:	real-time graphs in 9.1.7.3 and real-ti	me
			a. alphanumeric telemetry	tables in 9.1.7.4.	
			b. real-time graph		
			c. real-time table		
			d. info window		
	F-FUI-09415	unverified	The FOS shall provide the capability to		08771
			build an analysis request on real-time		
			data that contain the following:		
			a. spacecraft ld		
			b. spacecraft subsystem/instrument		
			c. telemetry parameters		
			d. real-time output views		
			e. output view formats		
	F-FUI-09500	unverified	The FOS shall provide the capability to		08768
			register an algorithm that contains the		
			following:		
			a. algorithm name		
			C-410		324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			b. algorithm object file name		
			c. output parameter name		
			d. input parameters		
	F-FUI-09510	unverified	The FOS shall provide the capability to		08768
			select a registered algorithm per		
			selected parameters when building an		
			analysis request.		
	F-FUI-09515	unverified	The FOS shall provide the capability to		08768
			select valid discrete and analog values		
			to be used per algorithm.		
	F-FUI-09530	unverified	The FOS shall notify the operator of		08618
			changes in spacecraft or ground		
			telemetry states which pertain to the		
			analysis of spacecraft safe hold mode		
			stability.		

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-FUI-09600	passed	The FOS shall display informational text		0
			messages about events that occur at		
			EOC, ISTs, S/C and instruments.		
	F-FUI-09640	passed	The FOS shall provide the results of an		0
			event history request in the event		
			history display.		
	F-FUI-09645	passed	The FOS shall visually alert a user that		0
			an event has occurred.		
	F-FUI-09650	unverified	The FOS shall allow the user to		08760
			activate and deactivate the generation		
			of auditory alarms associated with the		
			occurrence of events.		
	F-FUI-09655	passed	The FOS shall require that an operator	If the generation of auditory alarms ha	s 0
			C-412	:	324-CD-005-0

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			acknowledge each event that is	been deactivated by the operator, the	en
			defined as an alarm event.	the operator does not need to	
				acknowledge the alarm event.	
	F-FUI-09660	unverified	The FOS shall allow the operator to		08760
			locally disable the acknowledgement of		
			alarms functions.		
	F-FUI-09663	passed	The FOS shall provide the capability to		0
			configure an events display as either a		
			local events display or a global events		
			display.		
	F-FUI-09665	unverfied	The FOS shall provide the capability for		08292
			a user to display both a local events		
			display and a global events display.		
	F-FUI-09700	passed	The FOS shall provide the user with		0
			C-413		324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			the capability to request event history		
			data.		
	F-FUI-09705	passed	The event history request shall include		0
			filtering of events by:		
			a. time period		
			b. spacecraft ld		
			c. instrument		
			d. spacecraft subsystem		
			e. event message type		
	F-FUI-12310	unverified	The FOS shall allow a user to select a		07881
			replay rate from 1 kilobit per second up		
			to 150 kilobits per second.		
	F-FUI-14005	unverified	The FOS shall provide notification	Notification via timeline display.	08767
			when a user attempts to schedule		
			science data collection activities that		
			C-414		324-CD-005-001/

412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			cause overflow of any of the SSR		
			buffers.		
	F-FUI-17265	unverified	The FOS shall provide the capability to		08767
			display the inhibit flags.		
	F-PAS-00100	passed	The FOS shall provide the capability for		0
			an authorized user to view any portion		
			of the mission schedule.		
	F-PAS-00103	passed	The FOS shall provide the capability for	Privileges will include read, write,	0
			an authorized user to restrict user	update, and delete and they can be	
			privileges for updating portions of the	defined for each spacecraft and	
			mission schedule.	instrument resource. They can also be	
				defined for specific time periods.	
	F-PAS-00105	passed	The FOS shall provide the capability for		0

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			an authorized user to make updates to a mission schedule for a specific spacecraft.		
	F-PAS-00138	passed	The FOS shall make predicted orbit	DMS has responsibility for this	0
			data and planning aids for a specific	requirement.	
			spacecraft available to authorized		
			users.		
	F-PAS-00140	unverified	The FOS shall provide the capability to notify the user when he attempts to schedule an activity beyond the limit of the predicted orbit data provided by the FDF.	Any activities requested beyond this limit can be scheduled but will not be associated with any particular spacecraft orbit or ground trace. The FOS will not be propagating orbit data beyond what the FDF provides.	08754
	F-PAS-00160	passed	The FOS shall provide the capability for an authorized user to make 'what-if' changes without affecting the mission	'What-if' changes will allow planners to study alternate mission schedules in an off-line and non-interfering	0

C-416

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			schedule for a specific spacecraft.	mode.Capabilities like constraint	
				checking that are available for missic	n
				schedules will be available in the	
				'what-if' mode.	
	F-PAS-00165	passed	The FOS shall provide the capability for		0
			an authorized user to discard 'what-if'		
			changes without affecting the mission		
			schedule for a specific spacecraft.		
	F-PAS-00170	passed	The FOS shall provide the capability for	These changes would be set aside	0
			an authorized user to save 'what-if'	and would not be incorporated. This	
			changes to the mission schedule	capability would allow a planner to	
			without affecting the mission schedule	save a set of changes he has not	
			for a specific spacecraft.	finished so that he could turn off his	
				machine.	
	F-PAS-00175	passed	The FOS shall provide the capability for		0
			C-417		324-CD-005-0

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	Clarification	NCR ID
			an authorized user to retrieve		
			previously saved 'what-if' changes		
			without affecting the mission schedule		
			for a specific spacecraft.		
	F-PAS-00180	passed	The FOS shall provide the capability for		0
			an authorized user to delete		
			previously saved 'what-if' changes		
			without affecting the mission schedule		
			for a specific spacecraft.		
	F-PAS-00185	passed	The FOS shall provide the capability for		0
			an authorized user to incorporate		
			'what-if' changes to the mission		
			schedule for a specific spacecraft.		
	F-PAS-00195	passed	The FOS shall prevent a user from		0
			inputting 'what-if' requests to any		
			portion of a mission schedule that he		
			C-418		324-CD-005-001/

412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			does not have update access for.		
	F-PAS-00335	passed	The FOS shall provide the capability for		0
			an authorized user to delete an activity		
			from the mission schedule.		
	F-PAS-00340	failed	The FOS shall provide the capability for		08025
			an authorized user to search for and		
			find an activity on the mission schedule		
			by: its name; or its identifier; or the		
			time.		
	F-PAS-00355	passed	The FOS shall provide the capability for	This will be used to do impact	0
			an authorized user to identify activities	scheduling. Planners may want to	
			on the mission schedule that prevent	force an activity into the mission	
			the scheduling of a specific activity.	schedule. They will be able to insert it	
				into the mission schedule and	
				determine the other activities that are in	

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
				conflict.	
	F-PAS-00365	passed	The FOS shall provide the capability for	This will allow planners to reschedule	0
			an authorized user to collect deleted	deleted activities. The list of deleted	
			activities in an activity list.	activities is only available for the	
				current session.	
	F-PAS-00420	passed	The FOS shall provide read-only	Parameters of this type will be able to	0
			access to non-modifiable parameters	be modified through the controlled	
			for an activity that is scheduled .	process provided by the Data	
				Management Subsystem.	
	F-PAS-00425	passed	The FOS shall provide the capability for	This will allow planners to coordinate	0
			an authorized user to create an	observations involving multiple	
			association between multiple activities	instruments and/or in-situ collection	
			or mission events.	activities.	
	F-PAS-00510	passed	The FOS shall provide the capability for	This will allow planners to use BAPs to	0
			an authorized user to schedule	schedule activities. Start and end	

C-420

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			activities between a start and end time	times will be specified so that the BAR)
			based on a Baseline Activity Profiles	is not propagated out to infinity.	
			(BAP).		
	F-PAS-00900	failed	The FOS shall provide the capability to		08798
			identify any activity in the mission		
			schedule that causes a soft constraint		
			violation.		
	F-PAS-00905	failed	The FOS shall provide the capability to		08798
			identify any activity in the mission		
			schedule that causes a hard constraint		
			violation.		
	F-PAS-00910	failed	The FOS shall provide the capability to		08798
			determine the constraints that an		
			activity is violating.		
	F-PAS-00925	unverified	The FOS shall be able to determine		08798
			C-421		324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			when the sun is in the field of view		
			limits of an instrument.		
	F-PAS-00940	passed	The FOS shall be able to model state		0
	1 1710 000 10	passoc	and mode changes in an instrument.		Ü
			ů,		
	F-PAS-00945	failed	The FOS shall be able to determine	An 'order' constraint is one which	08798
			when an activity violates an 'order'	states that activities must be schedule	ed
			constraint.	in a certain order.	
	F-PAS-00950	failed	The FOS shall be able to determine	A time spacing constraint is one whic	h 08798
			when an activity violates a time	states that two activities must be	
			spacing constraint.	separated by a minimum time interval	l.
	F-PAS-01200	failed	The FOS shall provide the capability to		08540
			accept a user request specifying an		
			C-422		324-CD-005-001/

412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			uplink window for a load.		
	F-PAS-01205	failed	The FOS shall verify the existence of a load specified in the uplink request.		08540
	F-PAS-01210	failed	The FOS shall verify a load is valid over the time period specified in the uplink request.		08540
	F-PAS-01215	failed	The FOS shall use an uplink window request to schedule the uplink of a load.		08540
	F-PAS-01220	unverified	The FOS shall provide the capability to restrict user scheduling functionality based on the user's group.	User's group is defined as instrument team member or flight operations team member.	06676

Test Case ID	Level 4	<u>Status</u>	<u>Text</u> <u>Clarification</u>	NCR ID
	F-PAS-01300	unverified	The FOS shall provide the capability for	06676
			an authorized user to generate a	
			graphical timeline plot of a mission	
			schedule.	
	F-PAS-01305	unverified	The FOS shall provide the capability for	06676
			an authorized user to generate a text	
			hardcopy of the scheduling constraint	
			event messages.	
	F-PAS-01310	unverified	The FOS shall provide the capability for This report will be a textual list of	06676
			an authorized user to generate a text activity names, scheduled times,	
			hardcopy that summarizes a mission parameters, etc.	
			schedule.	
	F-PAS-10009	unverified	The FOS shall notify the ASTER ICC	08762
			when an ASTER activity in a mission	
			C-424	324-CD-005-0

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	Clarification	NCR ID
			schedule is affected by updated orbit		
			data from FDF.		
	F-PAS-10305	unverified	The FOS shall provide the AM-1		08545
			mission schedule to the ASTER ICC as		
			specified in the ASTER ICC ICD.		
	F-PAS-10560	unverified	The FOS shall notify the ASTER ICC of		08476
			any activities that they submitted that		
			violate constraints.		
	F-PAS-10565	unverified	The FOS shall notify the ASTER ICC of		08476
			the specific constraint that was		
			violated for ASTER activities that		
			violate constraints.		
	F-PAS-10605	unverified	The FOS shall provide the capability to		08525
			determine the number of CERES scans		
			C-425		324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			between sunrise and sunset events for a given satellite orbit.		
	F-PAS-10623	unverified	The FOS shall provide the capability for an authorized user to generate MISR Local Mode visibility mission events.		08713
	F-PAS-10625	unverified	The FOS shall provide the capability to determine MISR access to local mode targets.	This is intended to be displayed on the timeline as an event.	08653
	F-PAS-10700	unverified	The FOS shall provide the capability to identify valid uplink windows for MISR microprocessor loads.	There will be a constraint in the database that limits these windows to nighttime only.	08725
	F-PAS-10705	unverified	The FOS shall display the valid uplink window for the MISR microprocessor		08744

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	Clarification	NCR ID
			load		
	F-RMS-00130	passed	The EOC shall provide an IST operator access to real-time data.		0
	F-RMS-00140	unverified	The EOC shall provide an IST operator access to replay data.		08785
	F-RMS-00150	unverified	The EOC shall provide an IST operator access to simulated data.		08785
	F-RMS-00160	unverified	The EOC shall provide multiple IST operators access to the same data streams.		08785

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-RMS-00170	unverified	The EOC shall provide a single IST	The number of streams a single IST	08785
			operator access to multiple data	operator is allowed to access at one	
			streams.	time will not be restricted by the RMS	
				software.	
	- - - - - - - - - -		T00		
	F-RMS-03060	passed	The EOC shall make ground		0
			configuration and component statuses		
			available for display to the IST		
			operators.		
	F-TLM-00535	passed	The FOS shall be capable of		0
		•	continuously decommutating real-time		
			spacecraft housekeeping telemetry at		
			rates up to 50 Kbps per spacecraft.		
	F-TLM-00540	passed	The FOS shall be capable of		0
			continuously decommutating real-time		
			instrument housekeeping telemetry at		
			C-428		324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			rates up to 50 Kbps per spacecraft.		
	F-TLM-00920	failed	The FOS shall provide the capability to	This capability permits a context	08783
			select an EU conversion algorithm	switched EU conversion. Up to sixteen	
			based upon the value of an associated	(16) predefined switch ranges are	
			predefined discrete telemetry point.	available. The discrete may be either a	
				decommutated or derived telemetry	
				parameter.	
	F-TLM-00925	passed	The FOS shall provide the capability for the user to select a predefined EU conversion algorithm.		0
	F-TLM-00970	passed	The FOS shall provide the capability for the user to adjust the predefined EU conversion algorithm coefficient values.	user directive is temporary. Permanent alterations may be accommodated through changes in the coefficient	0
				values resident within the Project Data	

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
				Base. Whenever a new set of limits is loaded, the data base defined values will be restored.	
	F-TLM-00985	passed	The FOS shall allow specification of up to eight (8) different EU segments for each analog parameter.	A separate EU conversion can be specified for each segment.	0
	F-TLM-00990	passed	The FOS shall be capable of performing conversion of segmented EUs.	Segmented EU conversion will use the following equation: $y = C0 + C1X = C2X^{**}2 = C3X^{**}3$ where X is the decoded value, Ci is a data base defined coefficient, and y is the converted value.	0
	F-TLM-01020	failed	The FOS shall allow for the selection of a single boundary limit group from a limit set containing up to four groups of	Each boundary limit group is capable of accommodating red and yellow high/low limit values.	08751

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			boundary limits per parameter.		
	F-TLM-01025	failed	The FOS shall provide the capability to	This capability permits a context	08746
			select a boundary limit group based	switched boundary group selection.	
			upon the value of an associated	Up to sixteen (16) predevined switch	
			predefined discrete telemetry	ranges are available. The discrete may	
			parameter.	be either a decommutated or derived	
				telemetry parameter.	
	F-TLM-01030	failed	The FOS shall provide the capability for the user to select a predefined boundary limit group.		08746
	F-TLM-01035	partially passed	The FOS shall use high and low limit values in raw or EU counts as specified for decommutated and derived parameters when limits have been defined.	Limits for both decommutated and derived parameters are specified through the Project Data Base.	08746

C-431

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-TLM-01120	passed	The FOS shall notify the user when a parameter incurs a delta limit violation.		0
	F-TLM-01130	failed	The FOS limit notification shall be reported when a telemetry point exceeds a limit, when the point comes back in limits, and every Nth occurrence (based upon the limit sense interval).		08697
	F-TLM-01145	failed	The FOS shall be capable of reporting limit violations based upon a predefined limit sense interval for each normal and derived parameter that has defined limits.	The limit sense interval modifies only the notification reporting rate and has no affect on limit checking and indicator updates. The FOS will use the predefined limit interval values as the initial default limit notification period.	08697

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-TLM-01150	failed	The FOS shall provide notification of		08697
			any out-of-limits status every Nth		
			sample occurrence, where N is		
			defined as the limit sense interval for		
			that parameter.		
	F-TLM-01155	passed	The FOS shall provide the capability of	Although the display of notification	0
			disabling (suppressing) or enabling	messages may be suppressed, the	
			notification messages concerning limits	messages will continue to be stored or	
			for all parameters.	logged. The FOS default limit condition	
				reporting mode will be 'enabled'.	
	F-TLM-01210	partially passed	The FOS shall provide the user the	Changing of the limit values via user	08289
			capability of changing limit values, delta	directive is temporary. Permanent	
			limit values, and limit sense intervals.	alterations may be accommodated	
				through changes in the limit values	
				resident within the Project Data Base.	
				Whenever a new set of limits is loaded,	
				the data base defined limits and sense	

C-433

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
				intervals will be restored.	
	F-TLM-01215	failed	The FOS shall provide the user the	Where conversions from engineering	08697
			capability to access current limit values	units to raw results in a non-unique	
			and delta limit values in both raw and	value, the value will be disallowed and	
			engineering units.	discarded.	
	F-TLM-01220	unverified	The FOS shall allow adjustment of limit		08697
			values only for those telemetry		
			parameters that have predefined limit		
			values.		
	F-TLM-01310	unverified	The FOS shall evaluate derived	The derived parameter algorithms will	08697
			parameters based on specified,	be obtained from telemetry data base	
			predefined equations.	definitions.	
	F-TLM-01315	failed	The FOS shall use analog telemetry	The FOS telemetry data base will limit	08697
			values, discrete telemetry values,	the number of input parameters for	
			constants, or other derived parameters	each derived parameter equation to six	
			C-434	3	24-CD-005-0

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			to build new derived parameters.	(6).The maximum number of derived	
				parameters that may be processed at	
				any given time will be determined for	
				each mission.	
	F-TLM-01320	passed	The FOS shall be capable of using	The Telemetry parameter values used	0
			either decoded or converted values	as inputs to the derived parameter	
			when evaluating derived telemetry	equation will be specified as either	
			parameters.	decoded or converted via the telemetry	
				database.	
	F-TLM-01355	failed	The FOS shall allow individual derived		07859
			parameter evaluations to be enabled or		
			disabled.		
	F-TLM-01415	passed	The FOS shall make available the		0
		F	status for every predefined telemetry		-
			parameter.		

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-TLM-01425	passed	The FOS shall make available, on a		0
			per-parameter basis, the following:		
			a. last decommutated raw value		
			b. associated converted value (if		
			applicable)		
			c. limit range values (if applicable)		
			d. limit sense interval		
			e. no data available indicator		
			f. static/active indicator		
			g. quality status indicator		
			h. out-of-limits low indicators (if		
			applicable)		
			i. out-of-limits high indicators (if		
			applicable)		
			j. delta limit error indicator		
			k. conversion error indicator		

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-TLM-01635	unverified	The FOS shall be capable of	This requirement permits the repid	08785
			processing stored housekeeping and	replay and display of stored telemetry,	
			engineering telemetry for display at	and may be useful during contact	
			rates up 150 Kbps.	simulations.	
	F-TLM-01640	unverified	The FOS shall be able to replay and		08785
			process the telemetry data at the		
			real-time or at a user specified rate.		
	F-TLM-10125	passed	The EOC shall be capable of receiving	For example, the EOC will be able to	0
			AM-1 housekeeping and AM-1	accept telemetry with the I and Q	
			diagnostic telemetry data from both the	channels in the following	
			I-channel and Q-channel	configurations:	
			simultaneously.	2 - 16 kbps housekeeping or	
				1 -16 kbps housekeeping and 1 - 16	
				kbps diagnostic	
	F-TLM-10535	passed	The FOS shall be capable of		0

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	Clarification	NCR ID
			continuously decommutating real-time spacecraft housekeeping telemetry at a rate of 16 Kbps.		
	F-TLM-10540	passed	The FOS shall be capable of continuously decommutating real-time instrument housekeeping telemetry at a rate of 16 Kbps.		0
	F-TLM-10560	passed	The FOS shall be capable of continuously decommutating real-time spacecraft health and safety telemetry at a rate of 1 Kbps.		0
	F-TLM-10570	passed	The FOS shall be capable of decommutating real-time spacecraft diagnostic telemetry at a rate of 1 Kbps.		0

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-TLM-10580	passed	The FOS shall be capable of		0
			decommutating real-time spacecraft		
			standby CTIU telemetry at a rate of 1		
			Kbps.		
	F-TLM-11320	failed	The FOS shall provide the capability to		007859
			process a maximum of fifty (50) AM-1		
			derived parameters at a given time.		
NCC-2020B					
	F F00 00000		TI 500 I II 51 II II		•
	F-FOS-00320	passed	The EOC shall use Ebnet for data	Reference the Interface Control	0
			communications for the following types	Document between the EOC and Ebnet	
			of data:	for specifics pertaining to this	
			a. Real-time telemetry data,	interface.	
			rate-buffered telemetry data		

C-439

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			b. Command data		
			c. TDRSS schedule requests and		
			TDRSS schedules		
			d. Data exchange with the FDF, NCC		
			and EDOS		
	F-RMS-04020	passed	The EOC shall provide the capability to		0
			send the following Ground		
			Configuration Message Requests to the		
			NCC:		
			a. User Reacquisition Request		
			b. User Reconfiguration Request		
			c. Forward Link Sweep Request		
			d. Forward Link EIRP Reconfiguration		
			Request		
			C-440		324-CD-005-0

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	Clarification	NCR ID
			e. Expand User Frequency Uncertainty Request		
			f. Doppler Compensation Inhibit/Enable Request		
	F-RMS-04090	passed	The EOC shall provide the capability to receive and process Acquisition Failure Notification messages from the		0
			NCC.		
	F-RMS-04100	passed	The EOC shall provide the capability to receive and process GCM Status messages from the NCC.		0
	F-RMS-04110	passed	The EOC shall provide the capability to receive and process GCM Disposition		0
			messages from the NCC.		

C-441

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-RMS-04120	passed	The EOC shall provide the capability to		0
			exchange Communication Test and		
			Acknowledgment messages to		
			determine prepass operational		
			readiness.		
NCC-2030B					
	F-FOS-00320	passed	The EOC shall use Ebnet for data	Reference the Interface Control	0
			communications for the following types	Document between the EOC and Ebnet	
			of data:	for specifics pertaining to this	
			a. Real-time telemetry data,	interface.	
			rate-buffered telemetry data		
			b. Command data		
			c. TDRSS schedule requests and		
			TDRSS schedules		
			d. Data exchange with the FDF, NCC		

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			and EDOS		
	F-FOS-00335	passed	The EOC shall receive TDRSS	Reference the Interface Control	0
			schedules and User Performance Data	Document between the NCCDS and	
			(UPD) from the Network Control Center	GSFC MOCs for specifics pertaining to	
			(NCC).	this interface.	
	F-RMS-04010	passed	The EOC shall provide the capability to		0
			send User Performance Data Request		
			messages to the NCC.		
	F-RMS-04085	passed	The EOC shall provide the capability to	Reference Section 7.2.5.3.	0
			receive and process Time Transfer		
			messages from the NCC.		
NCC-2040B					
1100-2040B	F-ANA-01015	unverified	The FOS shall be able to access all		08776
			archived NCC/EDOS data for analysis.		

C-443

324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	Clarification	NCR ID
	F-ANA-01050	unverified	The FOS shall be able to access NCC		08776
			User Performance Data (UPD) for		
			analysis.		
	F-ANA-03012	unverified	The FOS shall be able to perform		08776
			analysis on all NCC and EDOS		
			parameters contained within the stored		
			NCC/EDOS data received during real		
			time.		
	F-ANA-04035	unverified	The FOS shall provide the capability to		08776
			generate datasets from stored NCC		
			and EDOS data received in real time.		
	F-ANA-07010	unverified	The FOS shall provide the capability to		08776
			C-444		324-CD-005-001/
					412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			perform MMM statistics on EDOS and NCC data received during real time.		
	F-ANA-07020	unverified	The interval for NCC/EDOS statistics		08776
	1 -AIVA 07020	diversion	shall be equal to the duration of the real		00110
			time pass during which the statistics		
			are performed.		
	E 4N/4 07000	w	T. 500 J. W. J.	-	00770
	F-ANA-07030	unverified	The FOS shall provide the capability to	The statistical data generated by the	08776
			process a request for EDOS/NCC	FOS shall not be available until after the	
			statistics for any time span greater	real time pass during which it was	
			than one second and less than three	generated.	
			(3) months.		
	F-RMS-05010	unverified	The EOC shall provide the capability to	UPD Messages only.	08776
			replay stored NCC ground telemetry		
			based upon a user specified time		
			period.		

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-RMS-05020	unverified	The EOC shall process all NCC ground telemetry blocks for the requested period, during the replay operation.	UPD Messages only.	08776
	F-RMS-05030	unverified	The EOC shall be capable of processing stored NCC ground telemetry for analysis at twelve (12) times the real-time rate.	This requirement is derived from the fact that the FOS must be able to analyze twenty-four (24) hours of stored telemetry data within a two (2) hour period. This capability is used for off-line batch processing and when immediate display of information is not necessary or desired (i.e., gathering statistics on a particular parameter over several weeks of stored ground telemetry data.)	08776
	F-RMS-05040	unverified	The EOC shall be able to process	UPD Messages only.	08776

C-446

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			stored NCC ground telemetry at the real-time rate or at a user specified rate up to three (3) times the real-time rate.		
<i>OPR-2000B</i>	F-ANA-04060	passed	A dataset size shall only be limited by the maximum UNIX file size (2 GB).		0
	F-DMS-01150	passed	The EOC shall provide 2 days of storage for staging long-term telemetry data.	This requirement will be used for disk sizing. Long-term telemetry data is data that is retrieved from the SDPS.	0
	F-FOS-00040	passed	The EOC shall have the capability to schedule its systems and communications interfaces that are used for multiple spacecraft and	The scheduling requirement will be implemented through operations at the EOC.	0

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			instrument operations and for other		
			activities, including maintenance,		
			upgrade, sustaining engineering,		
			testing, and training.		
	F-FOS-00045	passed	The EOC shall participate in the	The scheduling requirement will be	0
			scheduling of interface and end-to-end	implemented through operations at th	е
			tests with the external elements	EOC.	
			involved, including the IP-ICCs, the		
			spacecraft simulator(s) and EDOS for		
			MO&DSD data delivery systems.		
	F-FOS-00075	passed	The EOC shall provide tests for		0
			validating, verifying, and checking		
			functional capabilities and performance		
			for EOC functions after the EOC has		
			been repaired or upgraded.		
	F-FOS-00080	passed	The EOC shall provide standard test		0
			C-448		324-CD-005-001/

412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			data sets to be used in the validation of		
			EOC function.		
	F-FOS-00085	passed	The EOC shall support instrument		0
			integration activities associated with		
			the spacecraft prior to launch.		
	F-FOS-00090	unverified	The EOC shall use simulations and test		08532
			functions of the spacecraft		
			simulator(s) to check out the EOC		
			functions.		
	F-FOS-00095	unverified	The FOC shall support energy of and		08533
	F-FO3-00095	unvermea	The EOC shall support spacecraft and instrument tests at the integration site		00533
			and at the launch site.		
	F-FOS-00110	unverified	The EOC shall be capable of		08584
			C-449		324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			simultaneously supporting the		
			Independent Verification and Validation		
			(IV&V) activities and ECS development		
			activities, both before and after flight		
			operations begin.		
	F-FOS-00115	passed	The EOC shall provide the following to		0
			be used in the revalidation of its		
			functional performance:		
			a. Benchmark test(s)		
			b. Standard test data sets.		
	F-FOS-00120	passed	The EOC shall provide access to the		0
			following items used in the checkout		
			and verification process:		
			a. Stored test data sets		
			b. Stored test plans		
			c. Stored test procedures.		

C-450

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-FOS-00125	passed	The EOC shall be able to validate at any		0
			time during the life-time of the ECS that		
			the EOC primary functional		
			performance is consistent with		
			pre-defined operational benchmark		
	F-FOS-00130	passed	The EOC shall be capable of verifying		0
			the fidelity of the EOC interface to:		
			a. Other ECS components at any time		
			during the lifetime of the ECS		
			b. Entities external to ECS at any time		
			during the lifetime of the ECS		
	F-FOS-00140	passed	The EOC shall provide a set of real or		0
			simulated functions which interfaces		
			with both ECS internal and external		
			entities for use in the following types		
			of test:		
			a. FOS Subsystems		
			C-451		324-CD-005-001/

412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			b. EOC		
			c. ECS System (integration of ECS		
			components)		
			d. EOSDIS System (Integration of		
			EOSDIS components)		
	F-FOS-00145	passed	The EOC shall support end-to-end EOS		0
			system testing and fault isolation.		
	F-FOS-00155	passed	The EOC shall be capable of supporting		0
			end-to-end test and verification		
			activities of the EOS program including		
			during the pre-launch, spacecraft		
			verification, and instrument verification		
			phases.		

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
Test oase ID	F-FOS-00160	partially passed	The EOC shall generate the following: a. (deleted) b. EOC resource utilization report c. EOC anomaly report d. EOC maintenance report e. EOC hardware/software	Reports are generated manually by the FOT.	
	F-FOS-00165	unverified	The EOC shall prepare a compliance report with the LTSP and LTIP.	The compliance report with the LTSP and the LTIP will be manually prepared by the Flight Operations Team (FOT).	08529
	F-FOS-00220	passed	The EOC shall support the following simultaneous activities: a. Performing mission coordination, planning, scheduling, monitoring, and commanding of the U.S. spacecraft and instruments as listed in Appendix D		0

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			of the ECS Functional and		
			Performance Specification.		
			b. At least two of the following:		
			mission test activities, EOC system		
			upgrades, training, and/or		
			maintenance.		
	F-FOS-00225	passed	The EOC computer hardware shall be		0
			able to grow without redesign to twice		
			the processing, storage, and network		
			communications capacities estimated		
			for full system operation.		
	F F00 00000	·	T. 500 11 1 1 1 1 1 1 1 1	-	00500
	F-FOS-00300	unverified	The EOC shall interface with the EOS	This requirement will be fulfilled	08528
			Project Scientist for resolution of	manually between the FOS and the	
			conflicts between instrument activities	Project Scientist.	
			of equal priority.		
	F-FOS-00500	passed	FOS functions shall have an	The above requirement covers	0
			C-454		324-CD-005-00

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			operational availability of 0.96 at a	equipment including:	
			minimum (.998 design goal) and an M	DT _a. "Non-critical" equipment configur	ed
			of four (4) hours or less (1.5 hour	with the critical equipment supporting	3
			design goal), unless otherwise	the functional capabilities in the	
			specified.	requirements.	
				_b. Equipment providing other	
				functionality not explicitly stated in th	е
				RMS requirements that follow.	
	F-FOS-00505	passed	The FOS shall have an operational		0
			availability of 0.9998 at a minimum		
			(.99997 design goal) and an MDT of		
			one (1) minute or less (0.5 minute		
			design goal) for critical real-time		
			functions that support:		
			a. Launch		
			b. Early orbit checkout		
			c. Orbit adjustment		
			d. Anomaly investigation		
			C-455		324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	Clarification	NCR ID
			e. Recovery from safe mode		
			f. Routine real-time commanding and		
			associated monitoring for spacecraft		
			and instrument health and safety		
	F-FOS-00510	passed	The EOC shall have no single point of		0
	1 1 00 00010	passou	failure for functions associated with		· ·
			real-time operations of the spacecraft		
			and instruments.		
	F-FOS-00515	passed	The FOS shall have an operational		0
			availability of 0.99925 at a minimum		
			(.99997 design goal) and an MDT of		
			five (5) minutes or less (0.5 minute		
			design goal) for non-critical real-time		
			functions.		
	F-FOS-00520	passed	The FOS shall have an operational		0
			C-456		324-CD-005-001/

412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			availability of 0.992 at a minimum and a MDT of (1) hour or less for functions associated with Targets of		
	F-PAS-10410	unverified	The EOC shall provide the capability to schedule S-band contingency communication contacts.	Requirement met through M&O Procedures	08527
	F-PAS-10415	unverified	The EOC shall provide the capability to receive S-band contingency communication contact times.	Requirement met through M&O procedures.	08526
PAS-2000B	F-DMS-00150	passed	The EOC shall accept spacecraft and instrument activity definitions.		0

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-DMS-00160	passed	The activity definitions shall contain the	Activity definitions are used in support	0
			following information:	of planning & scheduling and command	
			a. command listing	management.Activities may contain	
			b. parameter mapping definition	real-time commands, stored	
			c. parameter limit definitions	commands, ECL directives, and	
				command procedure names.This	
				includes label activities (i.e., activities	
				that don't have commands associated	
				with them).Parameter mapping	
				definitions are the listing of command	
				parameters (submnemonics)	
				associated with the commands in the	
				activity definition.	
	E DMC 00225	paged	The EOC shall provide outherized	DAS has assumed repossibility for	0
	F-DMS-00235	passed	The EOC shall provide authorized	PAS has assumed responsibility for	0
			users the capability to add activity	this requirement.	
			definitions to the PDB.		

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-DMS-00240	passed	The EOC shall provide authorized users the capability to delete activity definitions maintained in the PDB.	PAS has assumed responsibility for this requirement.	0
	F-DMS-00245	passed	The EOC shall provide authorized users the capability to modify activity definitions maintained in the PDB.	PAS has assumed responsibility for this requirement.	0
	F-DMS-00330	unverified	The EOC shall provide the capability to perform validation on the activity definitions maintained in the PDB.	PAS has assumed responsibility for this requirement.	07973
	F-PAS-00200	passed	The FOS shall provide the capability for an authorized user to create an activity definition.	Activity definitions will be stored in the Project Database.	0

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	Clarification	NCR ID
	F-PAS-00205	passed	The FOS shall provide the capability for		0
			an authorized user to modify an		
			activity definition.		
	F-PAS-00210	passed	The FOS shall provide the capability for		0
			an authorized user to delete an activity		
			definition.		
	F-PAS-00215	passed	The FOS shall provide the capability to	Commands will be identified using	0
			associate a command sequence with	mnemonic names from the Project	
			an activity definition.	Database. Commands include	
				spacecraft and ground directives.	
				Constraint checking of command	
				sequences will be done by Data	
				Management as part of the Project	
				Database validation process.	
	F-PAS-00220	passed	The FOS shall provide the capability to	The user will be able to specify	0
			C-460		324-CD-005-0

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			define parameters in an activity	parameter values when the activity is	
			definition and associate them with	scheduled.	
			individual commands in an activity		
			command sequence.		
	F-PAS-00330	passed	The FOS shall assign a unique identifier	This will allow planners to specifically	0
			to each individual activity in the	identify activities. For instance, if a	
			mission schedule.	planner found an activity on a textual	
				report and wanted to display it on the	
				timeline, the unique idnetifier will help	
				him find it more easily on the timeline.	
	F-PAS-00400	partially passed	The FOS shall provide the capability for	Optional parameters are values for	08040, 08525
			an authorized user to supply optional	command submnemonics and values	
			parameters before an activity is	for command procedure variables.	
			scheduled.		
_	F-PAS-00415	passed	The FOS shall not allow an optional	0	
			parameter to be defined out of		
			predefined limits for an activity that is		

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			scheduled .		
PAS-2010B					
	F-PAS-00500	passed	The FOS shall provide the capability for		0
			an authorized user to create a list of		
			recurring activities and store them in a		
			Baseline Activity Profile (BAP)		
			definition for an instrument, spacecraft		
			subsystem, or ground system.		
	F-PAS-00503	passed	The FOS shall provide the capability for	'Maintain' implies that a user will be able	0
			an authorized user to maintain a	to edit or modify a BAP definition.	
			Baseline Activity Profile (BAP)		
			definition.		
	F-PAS-00505	passed	The FOS shall provide the capability for	For instance, if the cycle were an orbit	0
			an authorized user to delete a	an instrument planner may want to	
			Baseline Activity Profile (BAP)	schedule an activity after every	
			definition.	satellite sunrise and sunset. Another	

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
				instrument planner may want to schedule an activity before each lunar eclipse that occurs in a year.	
PAS-2020B					
	F-PAS-00105	passed	The FOS shall provide the capability for an authorized user to make updates to a mission schedule for a specific spacecraft.		0
	F-PAS-00115	passed	The FOS shall provide the capability for an authorized user to create a mission schedule for a specific spacecraft.		0
	F-PAS-00135	passed	The FOS shall provide the capability for an authorized user to update portions of a mission schedule for a specific spacecraft.		0

C-463

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-PAS-00140	passed	The FOS shall provide the capability to	Any activities requested beyond this	0
			notify the user when he attempts to	limit can be scheduled but will not be	
			schedule an activity beyond the limit of	associated with any particular	
			the predicted orbit data provided by the	spacecraft orbit or ground trace. The	
			FDF.	FOS will not be propagating orbit data	
				beyond what the FDF provides.	
	F-PAS-00150	passed	The FOS shall provide the capability for		0
			an authorized user to incorporate		
			updated orbit data from the FDF into the		
			mission schedule for a specific		
			spacecraft.		
	F-PAS-00153	unverified	The FOS shall notify the user when an		08192
			activity in a mission schedule is		
			affected by updated orbit data from		
			FDF.		
	F-PAS-00300	passed	The FOS shall provide the capability for		0
			C-464		324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			an authorized user to schedule an		
			activity for a specific date and time		
	F-PAS-00310	passed	The FOS shall provide the capability for	Planners will be able to select the	0
			an authorized user to schedule an	following intervals: every n seconds	
			activity at user defined intervals	(1 - 6000); or every n minutes (1 -	
			starting at a specific date and time.	1440); or every n hours (1 - 960); or	
				every n days (1 - 365); or every n	
				weeks (1 - 52); or every n months (1 -	
				60); or every n years (1 - 10); or every	
				orbit.	
	F-PAS-00315	passed	The FOS shall provide the capability for		0
			an authorized user to schedule an		
			activity at a delta time from some		
			mission event.		
	F-PAS-00335	passed	The FOS shall provide the capability for		0
			C-465		324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			an authorized user to delete an activity from the mission schedule.		
	F-PAS-00340	failed	The FOS shall provide the capability for		08025
			an authorized user to search for and find an activity on the mission schedule by: its name; or its identifier; or the		
			time.		
	F-PAS-00350	passed	The FOS shall provide the capability for an authorized user to schedule a list of activities.		0
	F-PAS-00355	passed	The FOS shall provide the capability for	This will be used to do impact	0
			an authorized user to identify activities on the mission schedule that prevent	scheduling. Planners may want to force an activity into the mission	
			the scheduling of a specific activity.	schedule. They will be able to insert it into the mission schedule and	

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Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
				determine the other activities that are in conflict.	
	F-PAS-00360	passed	The FOS shall provide the capability for an authorized user to delete activities that prevent the scheduling of a specific activity.	If planners determine that the forced activity will take precedence they will be able to delete other activities in conflict.	0
	F-PAS-00365	passed	The FOS shall provide the capability for an authorized user to collect deleted activities in an activity list.	This will allow planners to reschedule deleted activities. The list of deleted activities is only available for the current session.	0
	F-PAS-00405	passed	The FOS shall supply predefined default parameter values if optional parameters are not supplied before an activity is scheduled.	Optional parameters are values for command submnemonics and values for command procedure variables.	0
	F-PAS-00410	passed	The FOS shall provide the capability for	Optional parameters are values for	0

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			an authorized user to modify optional parameters for an activity that is already scheduled .	command submnemonics and values for command procedure variables.	
	F-PAS-00420	passed	The FOS shall provide read-only access to non-modifiable parameters for an activity that is scheduled.	Parameters of this type will be able to be modified through the controlled process provided by the Data	0
			ior arrabavity that is conceded.	Management Subsystem.	
	F-PAS-00425	passed	The FOS shall provide the capability for an authorized user to create an association between multiple activities	This will allow planners to coordinate observations involving multiple instruments and/or in-situ collection	0
			or mission events.	activities.	
	F-PAS-00510	passed	an authorized user to schedule	This will allow planners to use BAPs to schedule activities. Start and end	0
			activities between a start and end time based on a Baseline Activity Profiles (BAP).	times will be specified so that the BAP is not propagated out to infinity.	

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	Clarification	NCR ID
	F-PAS-01000	passed	The FOS shall be able to schedule one activity in less than 4 seconds.		0
PAS-2030B	F-FUI-04000	passed	The FOS shall provide the capability to display a mission schedule for a		0
	F-FUI-04010	paggad	specified time period on a timeline display. The FOS shall provide the capability to		0
	F-F0I-04010	passed	display TDRSS availability for a specified time period on a timeline display.		U
	F-FUI-04020	passed	The FOS shall provide the capability to display resource usage with 2D line		0
			plots or bar graphs on a timeline C-469		324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			display.		
	F-FUI-04030	passed	The FOS shall provide the capability to		0
			scroll by time and resource on the		
			timeline display.		
	F-FUI-04040	passed	The FOS shall provide the capability to		0
			zoom in and out by time and resource		
			on the timeline display .		
	F-FUI-04060	passed	The FOS shall provide the capability to		0
			display orbital events on the timeline		
			display.		
	F-FUI-04070	passed	The FOS shall provide the capability to	The FOS shall provide the capability to	0
			display the current date and time on the	display the timeline's date and time on	
			timeline display.	the timeline display.	

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Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	Clarification	NCR ID
	F-FUI-04080	passed	The FOS shall provide the capability to		0
			display the start and end times of		
			activities and events on the timeline		
			display.		
	F-FUI-04120	passed	The FOS shall provide the capability to		0
			display activities and events on the		
			timeline display.		
	F-FUI-04140	passed	The FOS shall provide the capability to		0
			display detailed information about		
			activities and events selected from the		
			timeline display.		
	F-FUI-04280	passed	The FOS shall provide the capability to		0
			display the limit of orbit data from the		
			FDF on the timeline.		
			C-471		324-CD-005-001/

412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	Text	<u>Clarification</u>	NCR ID
	F-FUI-04290	passed	The FOS shall provide the capability to		0
			display the amount of resources		
			allocated to a particular instrument or		
			spacecraft subsystem over time on the		
			timeline.		
	F-FUI-04300	passed	The FOS shall provide the capability to	The timeline displays power and data	0
			display the total amount of resources	volume usage. Power usage is	
			available on a particular spacecraft	displayed for scheduling components	
			over time on the timeline.	and is also summarized for the entire	
				spacecraft. Data volume usage is	
				displayed for each SSR buffer.	
	F-PAS-00020	passed	The EOC shall provide the capability for		0
			an authorized user to create a long		
			term spacecraft operations plan.		

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-PAS-00025	passed	The EOC shall provide the capability for		0
			an authorized user to maintain a long		
			term spacecraft operations plan.		
	F-PAS-00030	passed	The EOC shall provide the capability for		0
			an authorized user to update a long		
			term spacecraft operations plan.		
	F-PAS-00035	passed	The EOC shall provide the capability for		0
			an authorized user to view a long term		
			spacecraft operations plan.		
	F-PAS-00100	passed	The FOS shall provide the capability for		0
			an authorized user to view any portion		
			of the mission schedule.		
	F-PAS-00605	passed	The FOS shall provide the capability for		0
			C-473		324-CD-005-001/
			C-413		412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	Clarification	NCR ID
			an authorized user to predict resource usage and availability based on predefined limits.		
	F-PAS-00610	passed	The FOS shall provide the capability for		0
			an authorized user to predict the		
			amount of resources required for a set		
			of activities scheduled from a start to		
			an end time in the mission schedule.		
	F-PAS-00820	passed	The FOS shall provide notification		0
			when the total allocation of resources		
			exceeds predefined limits.		
	F-PAS-00915	passed	The FOS shall model the spacecraft		0
			power subsystem.		

Test Case ID	Level 4	<u>Status</u>	<u>Text</u> <u>Clarification</u>	NCR ID
	F-PAS-00920	passed	The FOS shall model spacecraft data volume.	0
	F-PAS-00925	passed	The FOS shall be able to determine when the sun is in the field of view	0
			limits of an instrument.	
	F-PAS-01300	passed	The FOS shall provide the capability for	0
			an authorized user to generate a	
			graphical timeline plot of a mission	
			schedule.	
	F-PAS-01305	failed	The FOS shall provide the capability for	08026
			an authorized user to generate a text	
			hardcopy of the scheduling constraint	
			event messages.	
	F-PAS-01310	partially passed	The FOS shall provide the capability for This report will be a textual list of	08026
			C-475	324-CD-005-001/ 412-CD-002-001

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
PAS-2035B			an authorized user to generate a text hardcopy that summarizes a mission schedule.	activity names, scheduled times, parameters, etc.	
	F-DMS-01021	passed	The EOC shall be capable of retrieving the following data files from the FOS archive. a. View period information for backup Ground Stations. b. (deleted) c. Spacecraft Contact Session (SCS) Summary Report.		0
	F-FUI-04050	passed	The FOS shall provide the capability to specify mission schedule access permissions on a timeline display.		0

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-PAS-00103	failed	The FOS shall provide the capability for an authorized user to restrict user	update, and delete and they can be	08536
			privileges for updating portions of the mission schedule.	defined for each spacecraft and instrument resource. They can also be	
			mission schedule.	defined for specific time periods.	
	F-PAS-00120	unverified	The FOS shall provide the capability for		08024
			an authorized user to delete a mission		
			schedule for a specific spacecraft.		
	F-PAS-00940	passed	The FOS shall be able to model state		0
			and mode changes in an instrument.		
	F-PAS-10535	passed	The FOS shall provide the capability to		0
			model the modes for the AM-1		
			spacecraft and instruments as defined		
			in the PDB.		

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Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-PAS-10605	unverified	The FOS shall provide the capability to		08704
			determine the number of CERES scans		
			between sunrise and sunset events		
			for a given satellite orbit.		
	F-PAS-10623	unverified	The FOS shall provide the capability for		08704
			an authorized user to generate MISR		
			Local Mode visibility mission events.		
	F-PAS-10625	unverified	The FOS shall provide the capability to	This is intended to be displayed on the	08704
			determine MISR access to local mode	timeline as an event.	
			targets.		
PAS-2040B					
	F-FOS-00320	failed	The EOC shall use Ebnet for data	Reference the Interface Control	08727
			communications for the following types	Document between the EOC and Ebnet	

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			of data:	for specifics pertaining to this	
			a. Real-time telemetry data,	interface.	
			rate-buffered telemetry data		
			b. Command data		
			c. TDRSS schedule requests and		
			TDRSS schedules		
			d. Data exchange with the FDF, NCC		
			and EDOS		
	F-FOS-00340	failed	The EOC elements shall submit TDRSS	Reference the Interface Control	08727
			schedule requests and Ground	Document between the NCCDS and	
			Configuration Message Requests to the	GSFC MOCs for specifics pertaining to	
			NCC.	this interface.	
	F-FOS-10150	passed	The EOC shall use and support the	Support includes the ability to schedule	0
			AM-1 Back-up Ground Station, as a	x-band contacts on the FOS mission	
			backup of the SN, to obtain return link	schedule.	
			(X-band) support.		

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-PAS-00700	passed	The FOS shall provide the capability for		0
			an authorized user to plan spacecraft		
			communication contacts.		
	F-PAS-00705	passed	The FOS shall provide the capability for		0
			an authorized user to include direct		
			downlink activities on the mission		
			schedule.		
	F-PAS-01040	passed	The FOS shall be able to schedule		0
			TDRSS contact requests for a one		
			week time period in less than 1 hour		
			after all appropriate inputs have been		
			received.		
	F-PAS-01120	passed	The FOS shall include the beginning		0
			and ending of scheduled		
			communications contact activities as		

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			mission events.		
	F-PAS-01125	passed	The FOS shall provide the capability for		0
			an authorized user to include orbital		
			events as mission events.		
	F-PAS-10400	failed	The EOC shall provide the capability to		08727
			schedule communication contacts with		
			TDRSS through the NCC.		
	F-PAS-10405	failed	The EOC shall provide the capability to		08727
			receive TDRSS contact times from the		
			NCC.		
	F-PAS-10436	passed	The EOC shall provide the capability to F	Requirement met by M&O procedures.	0
			schedule AM-1 back-up ground station		
			(backup X-band) contacts.		

Test Case ID Level 4 Status Text Clarification	NCR ID
F-PAS-10437 unverified The EOC shall provide the capability to Requirement met by M&O pro	ocedures. 08787
receive AM-1 backup ground station	
contact times.	
F-PAS-10445 passed The EOC shall provide the capability to	0
include AM-1 direct access system	
events on the AM-1 mission schedule.	
F-PAS-10447 passed The FOS shall accept two different	0
types of user-defined parameters for	
the Communication Contact Scheduler	
algorithm. The two types are:	
a. Parameters which specify the	
desired nature of the schedule. These	
comprise both discrete values and	
score profiles	

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			b. Parameters which determine the time to run vs. schedule care tradeoff for the algorithm		
	F-PAS-10448	passed	The FOS shall provide a Communications Contact Scheduler algorithm which produces an optimized schedule based on the users' parameters.	User specified parameters are listed in F-PAS-10447.	0
	F-PAS-10500	failed	The EOC shall provide the capability to model the AM-1 high gain antenna (HGA) pointing angles.		08730
	F-PAS-10505	failed	The EOC shall provide the capability to identify activities that cause the AM-1 high gain antenna (HGA) to exceed its		08729

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Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			pointing limits as defined in the		
			database.		
	F-PAS-10510	partially passed	The EOC shall provide the capability to		08731
			model AM-1 high gain antenna (HGA)		
			slew times.		
	F-PAS-10515	passed	The EOC shall provide the capability to		0
			identify activities that would require the		
			high gain antenna (HGA) to slew		
			faster than the maximum slew rate as		
			defined in the database.		
PAS-2050B					
	F-FUI-04100	passed	The FOS shall provide the capability to		0
			highlight activities that violate hard and		
			soft constraints on the timeline display.		

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-PAS-00900	passed	The FOS shall provide the capability to identify any activity in the mission schedule that causes a soft constraint violation.		0
	F-PAS-00905	passed	The FOS shall provide the capability to identify any activity in the mission schedule that causes a hard constraint violation.		0
	F-PAS-00910	passed	The FOS shall provide the capability to determine the constraints that an activity is violating.		0
	F-PAS-00945	passed	The FOS shall be able to determine when an activity violates an 'order' constraint.	An 'order' constraint is one which states that activities must be scheduled in a certain order.	0

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	Clarification	NCR ID
	F-PAS-00950	passed	The FOS shall be able to determine when an activity violates a time spacing constraint.	A time spacing constraint is one which states that two activities must be separated by a minimum time interval.	0
<u>PAS-2110B</u>	F-CMS-00305	partially passed	The EOC shall determine an uplink window for each ATC load.		08722
	F-CMS-00405	unverified	The EOC shall provide the capability to determine a break point (or points) for partitioning an ATC load to meet uplink criteria for the spacecraft.	specific spacecraft are discussed in	09049
	F-CMS-00660	passed	For each request to schedule a load uplink activity, the EOC shall provide the capability to verify that the applicable load is available and ready		0

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			for uplink.		
	F-FUI-04130	passed	The FOS shall provide the capability to		0
			display the time period that a load is		
			valid for uplink on the timeline display.		
	F-FUI-05700	failed	The FOS shall provide the capability for		08793
			the user to select or input a load name		
			for generating, scheduling, and deleting		
			a load.		
	F-PAS-01200	partially passed	The FOS shall provide the capability to		08788
			accept a user request specifying an		
			uplink window for a load.		
	F-PAS-01205	failed	The FOS shall verify the existence of a		08739
			load specified in the uplink request.		

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-PAS-01210	passed	The FOS shall verify a load is valid		0
			over the time period specified in the		
			uplink request.		
	F-PAS-01215	partially passed	The FOS shall use an uplink window		08788
			request to schedule the uplink of a		
			load.		
	F-PAS-01220	unverified	The FOS shall provide the capability to	User's group is defined as instrument	08789
			restrict user scheduling functionality	team member or flight operations team	
			based on the user's group.	member.	
	F-PAS-10700	failed	The FOS shall provide the capability to	There will be a constraint in the	08721
			identify valid uplink windows for MISR	database that limits these windows to	
			microprocessor loads.	nighttime only.	

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
	F-PAS-10705	passed	The FOS shall display the valid uplink window for the MISR microprocessor load		0
PAS-2180B					
	F-CMS-00235	unverified	In support of a late change that occurs after the ATC load for that period has been uplinked, the EOC shall provide the capability to generate a partial ATC load for the late change.	An ATC partial load is defined as an ATC load that starts after the start of the nominal operational period and ends at the same time as the nominal operational period. ATC partial loads will be initiated by and based on DAS updates received from Planning and Scheduling.	09049
	F-CMS-01630	failed	In support of a late change, the EOC shall process all loads associated with the change in less than 1 hour after		08795

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	Clarification	NCR ID
			receiving the updated DAS. The		
			processing of loads associated with		
			the change shall include:		
			a. Generating an ATC load or ATC		
			partial load based on the expanded		
			DAS activities		
			b. Verifying the current contents of		
			RTS buffers referenced by the ATC		
			load		
			c. Generating a ground script based on		
			the expanded DAS activities		
			d. Verifying the existence in the EOC		
			table load catalog of the table loads		
			that have uplink references in the DAS		
			e. Verifying the existence in the EOC		
			flight software load catalog of the flight		
			software loads that have uplink		

Test Case ID	Level 4	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	NCR ID
			references in the DAS		
			f. Verifying the existence in the EOC		
			microprocessor load catalog of the		
			microprocessor loads that have uplink		
			references in the DAS		
			g. Verifying the existence in the EOC		
			RTS load catalog of the RTS loads that		
			have uplink references in the DAS		
	F-CMS-10240	passed	The EOC shall direct the placement of		0
			an ATC late change such that the load		
			may overwrite unexecuted commands		
			in the SCC stored command table.		
	F-PAS-10455	unverified	The FOS shall accept an ASTER	The list will be processed immediatel	y 08759
			activity list that is within the boundaries	to provide constraint feedback but will	I
			of the Detailed Activity Schedule and	not be applied to the Master Plan	
			process the list as a Late Change	without approval from an authorized	
			Request.	FOT operator.	
			C-491		324-CD-005-001/

412-CD-002-001